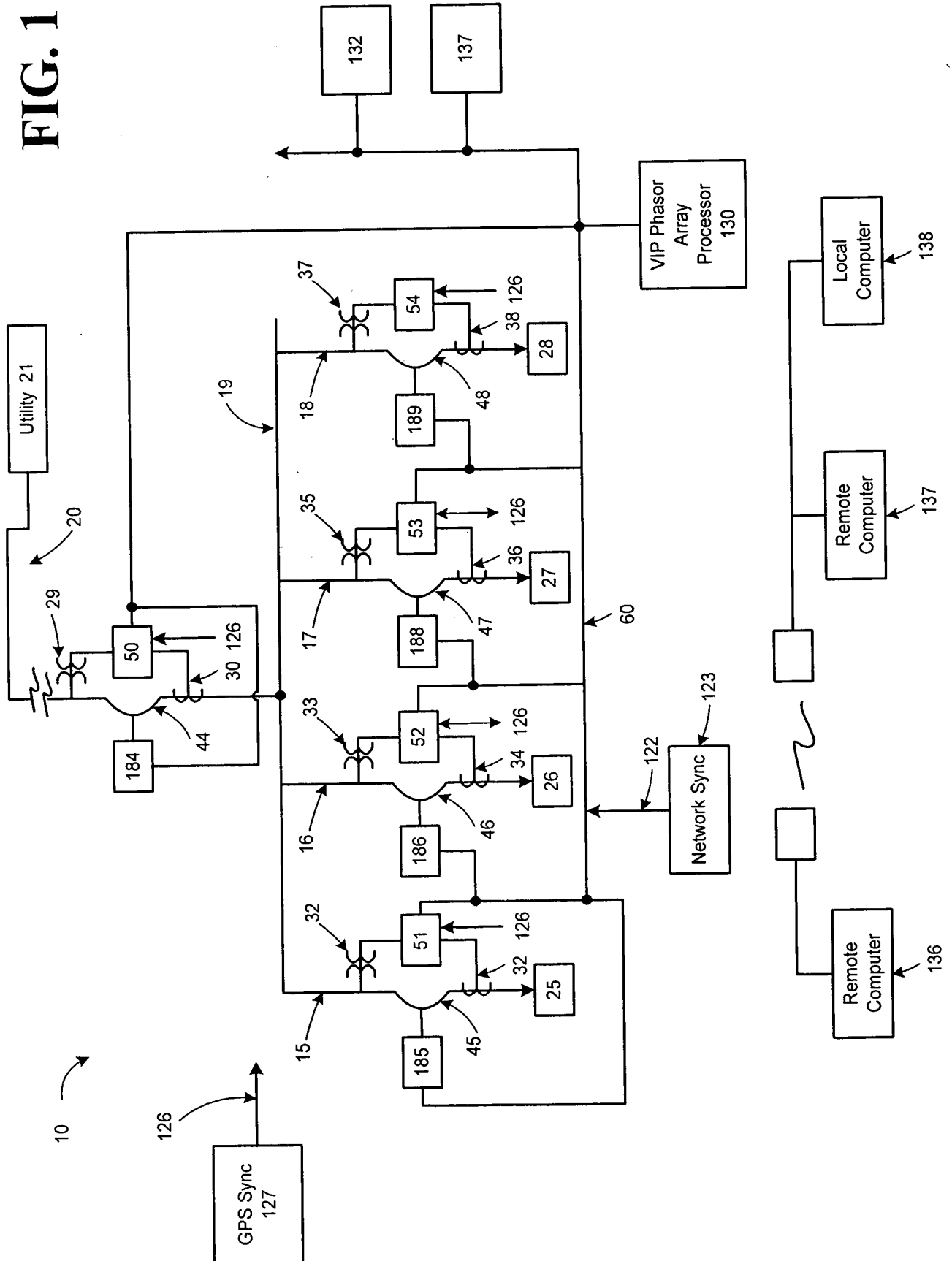




FIG. 1



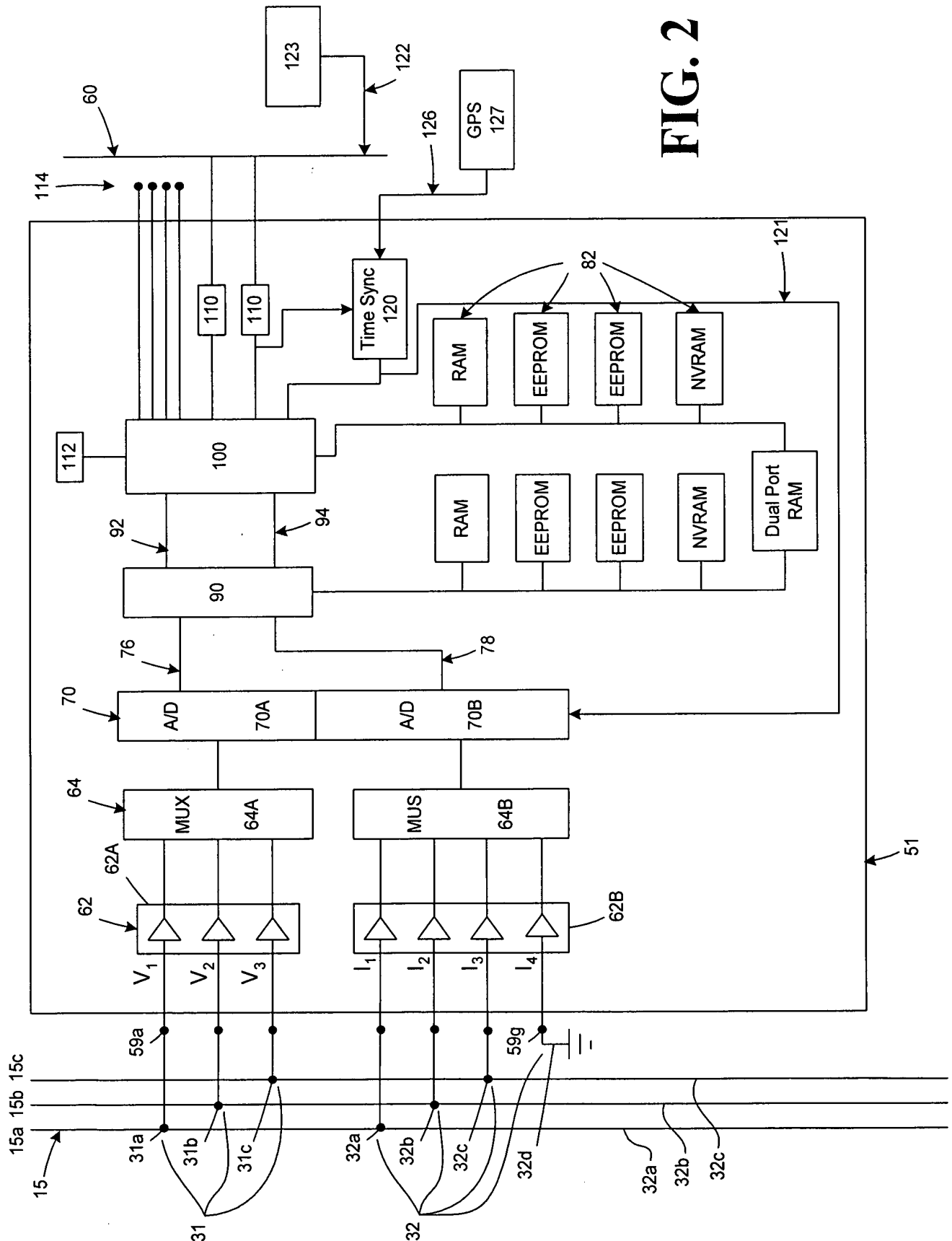
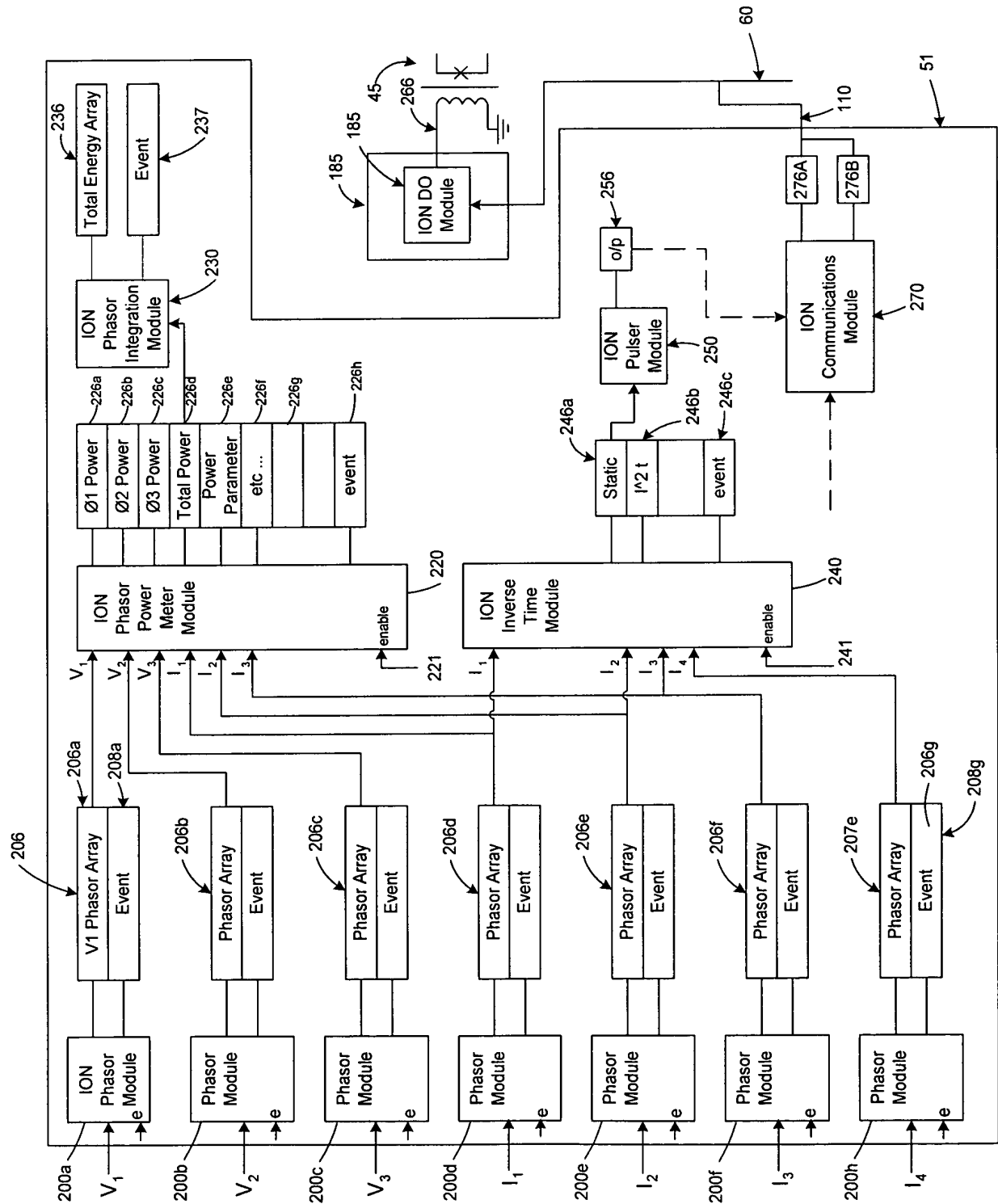


FIG. 2

Phasion ION Mouldle Diagram



[illegible]

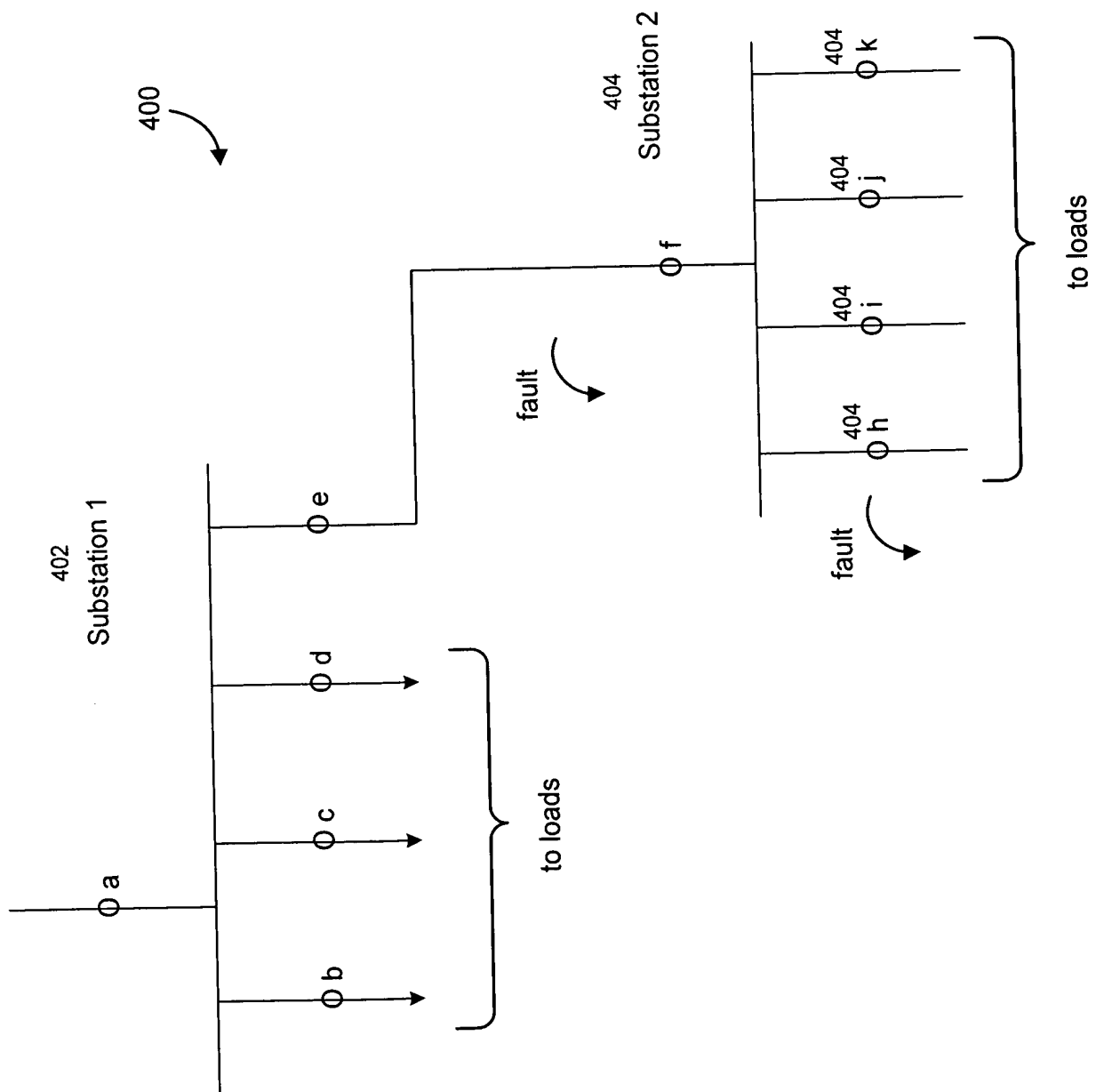


FIG. 5

FIG. 6

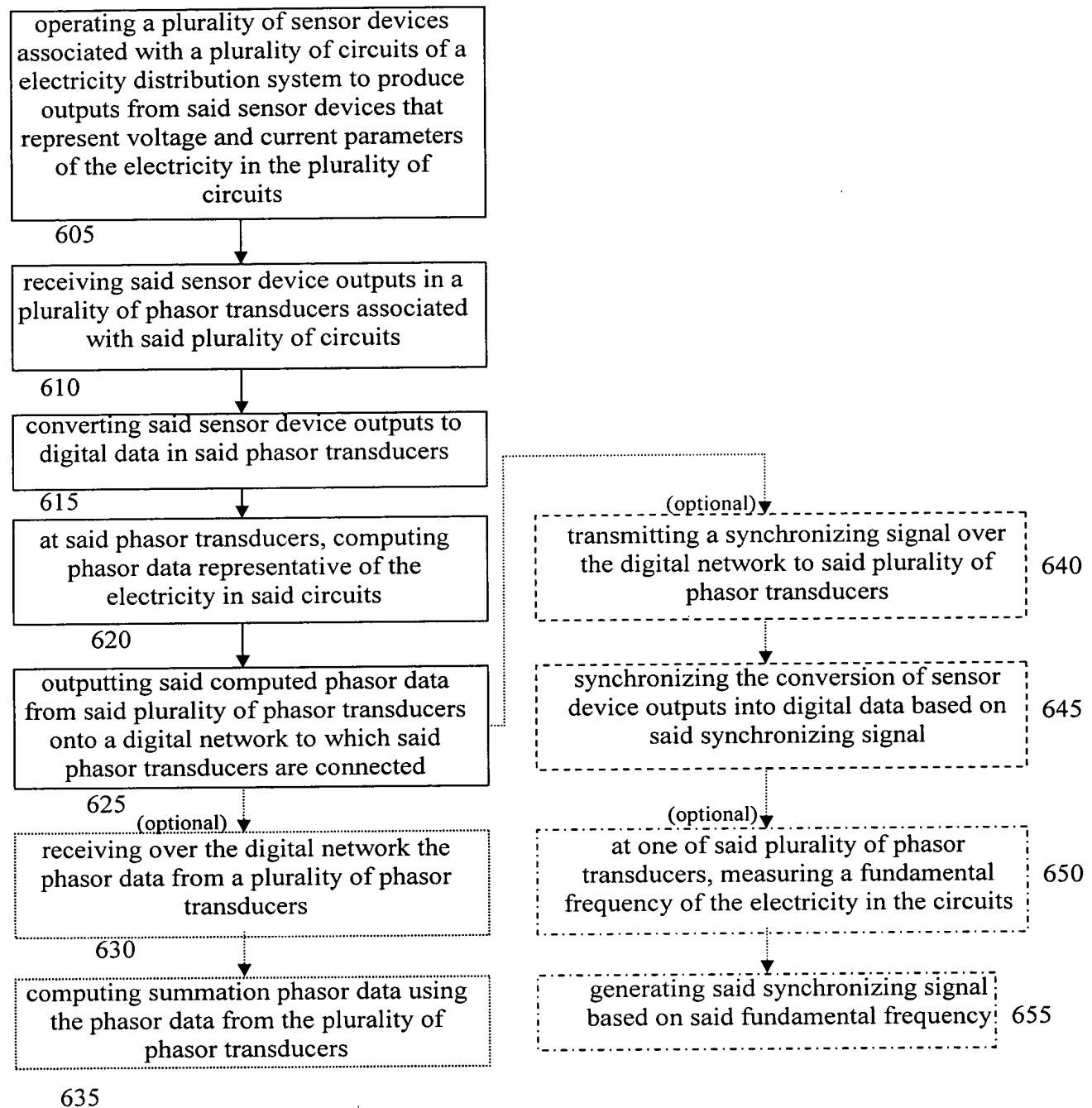


FIG. 7

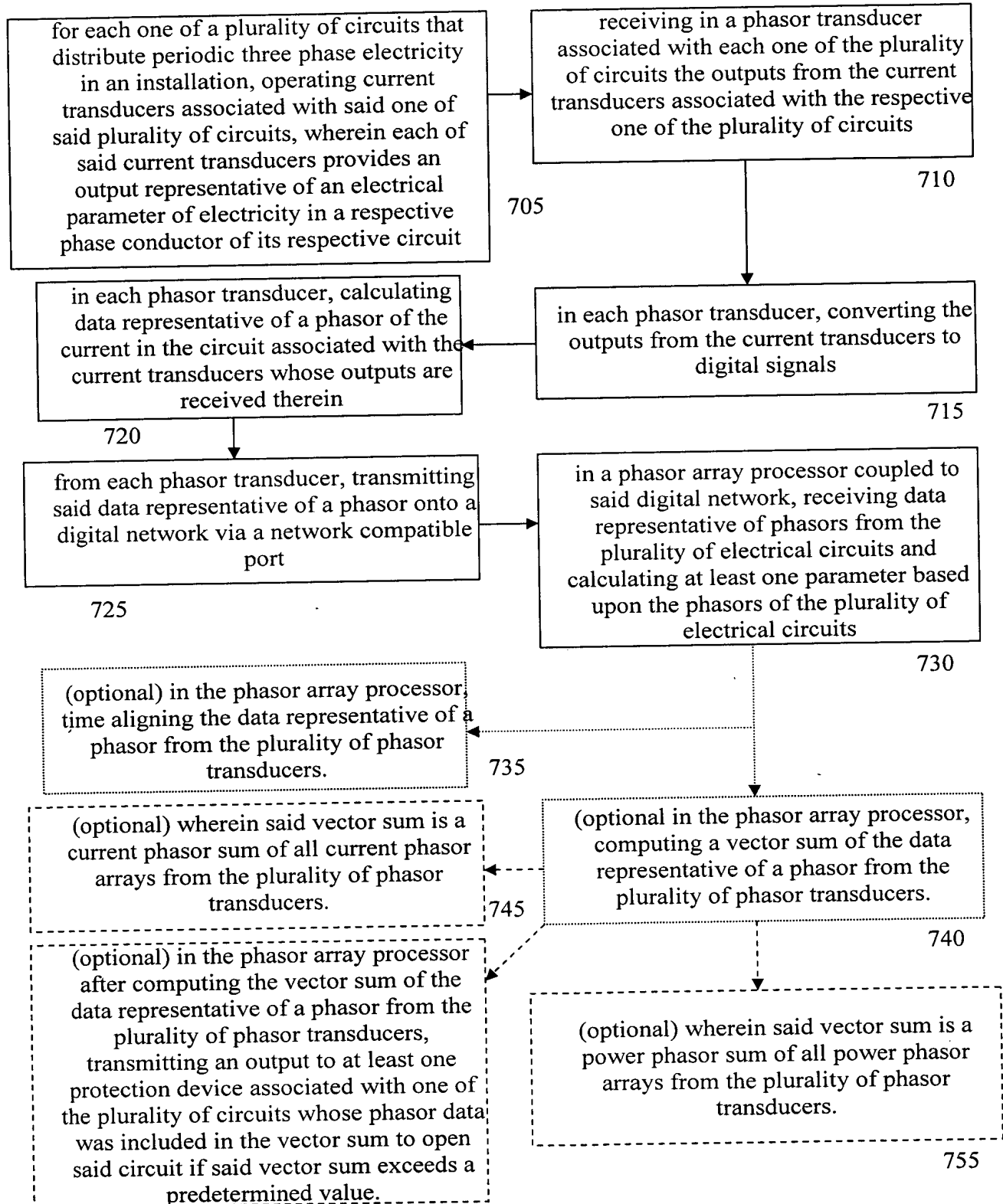


FIG. 8

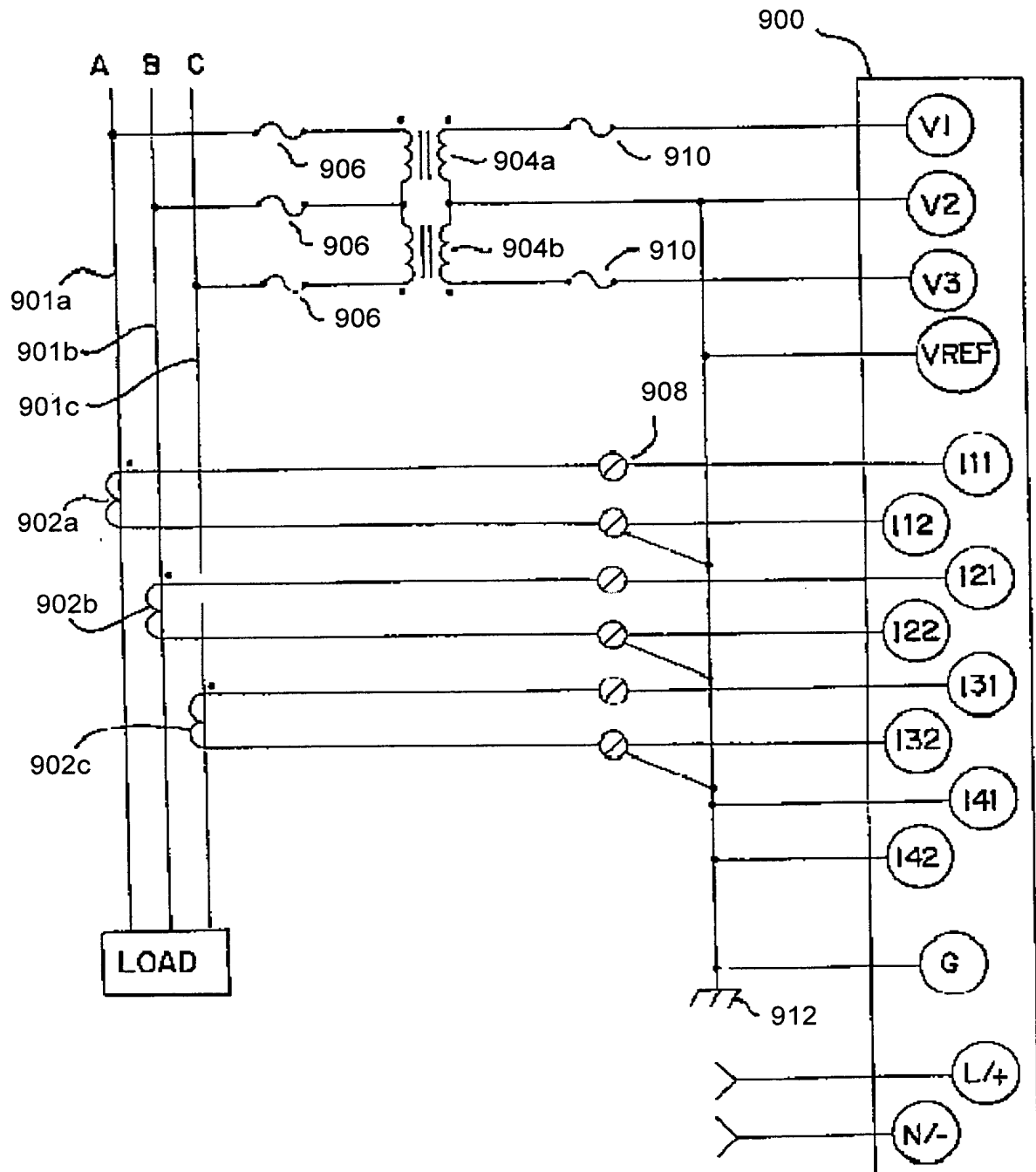


FIG. 9

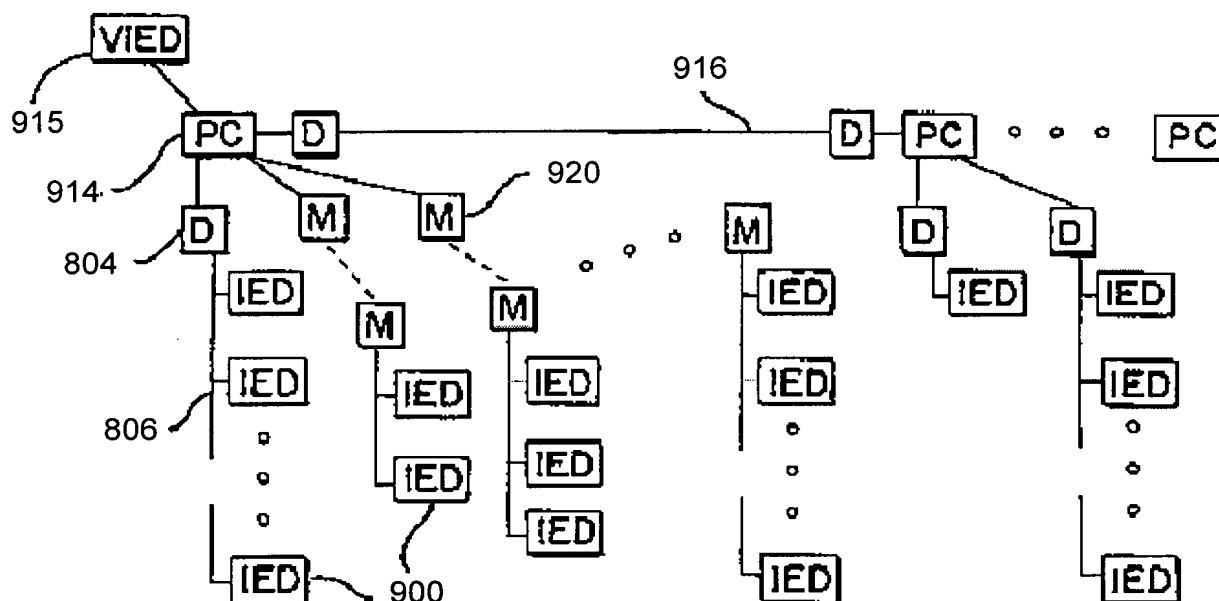


FIG. 11

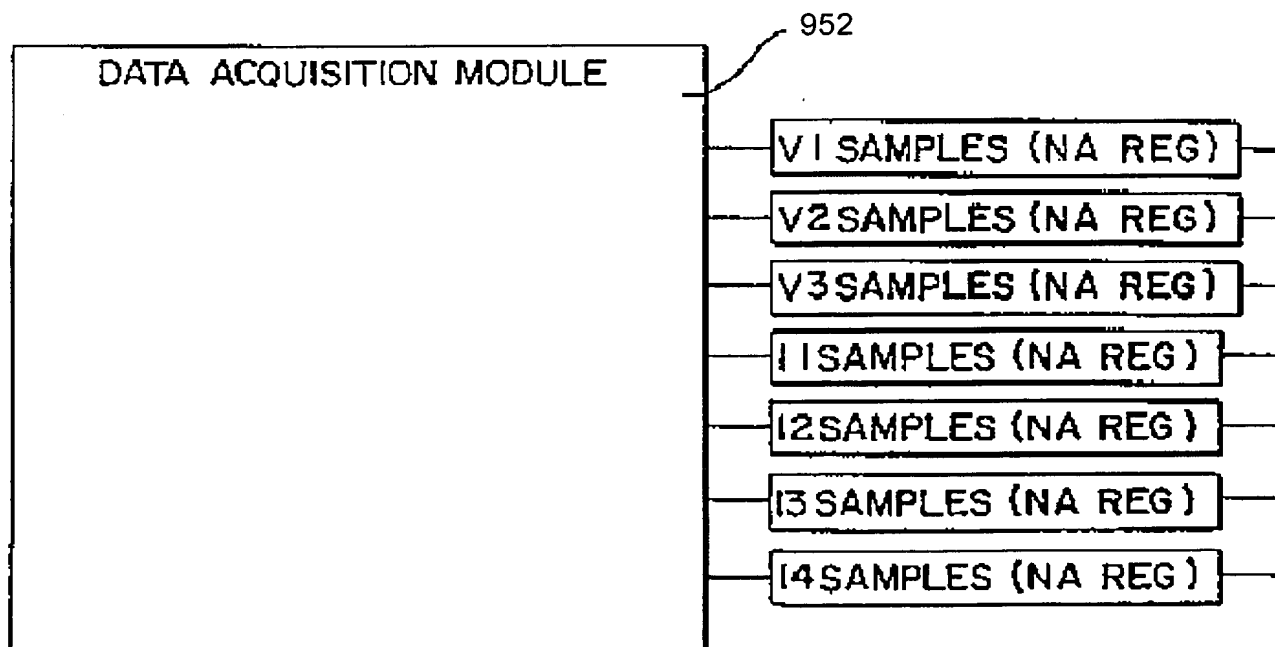
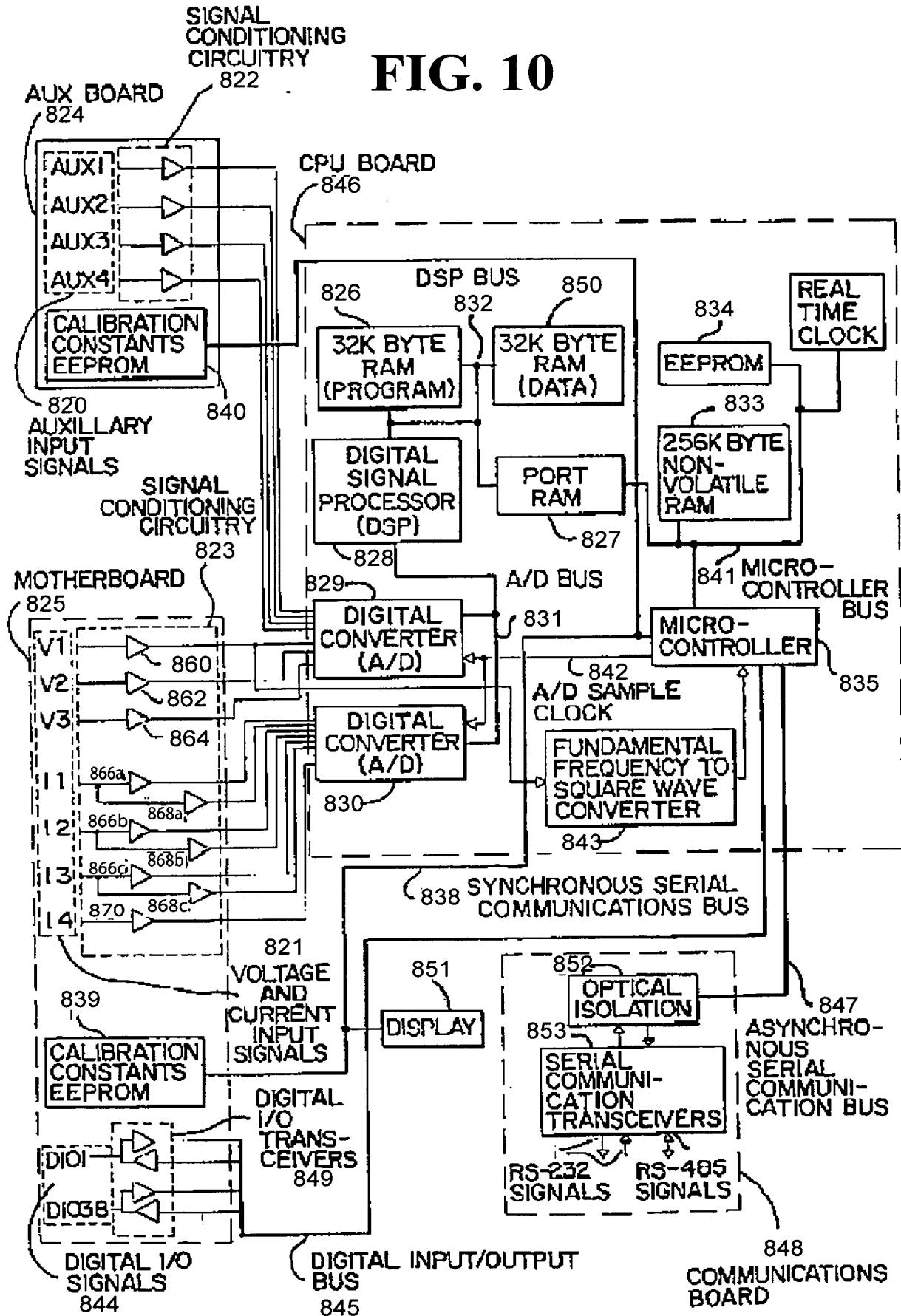


FIG. 10



DATA ACQUISITION
MODULE
OPERATION (CLIENT
PORTION)

FIG. 11A

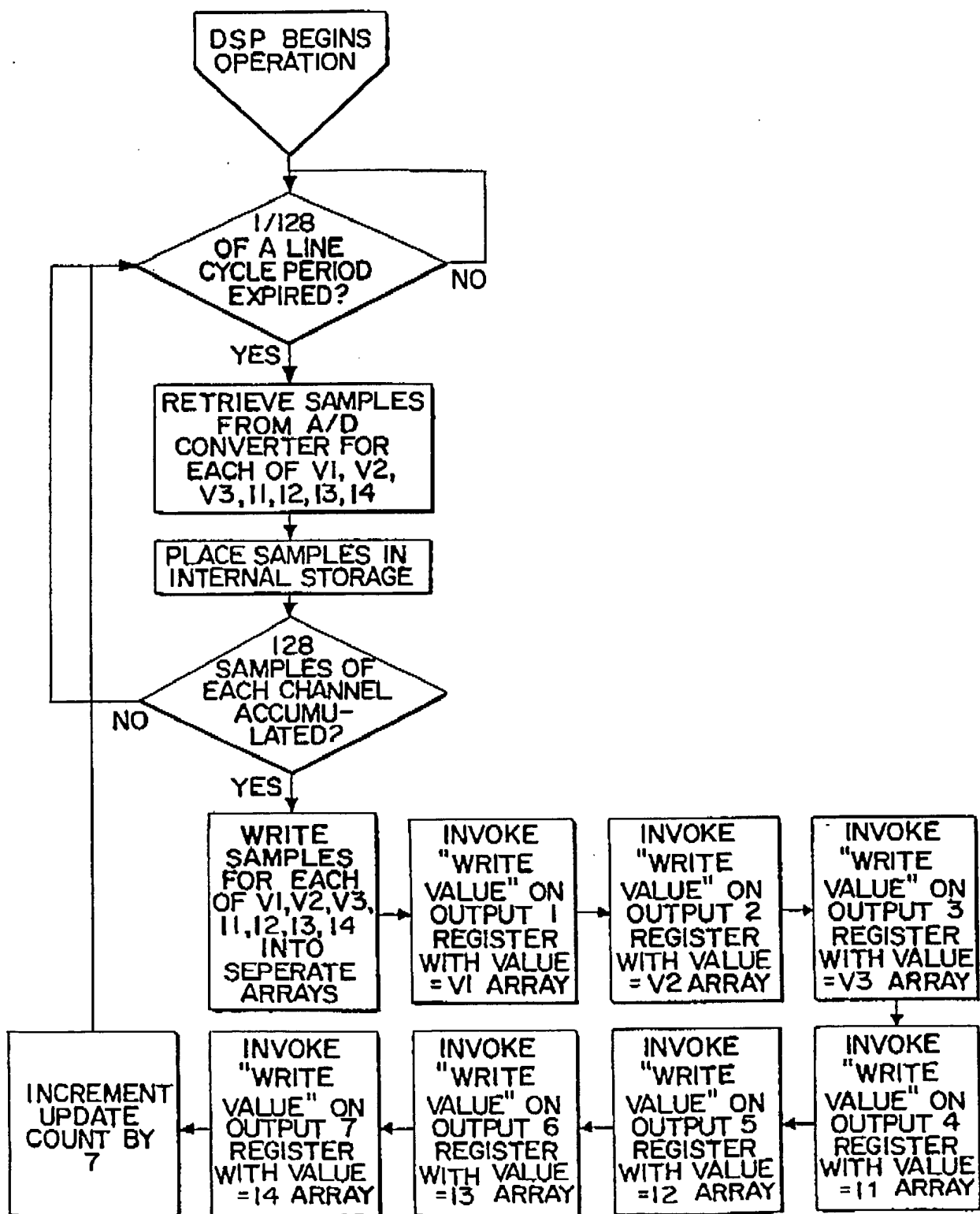
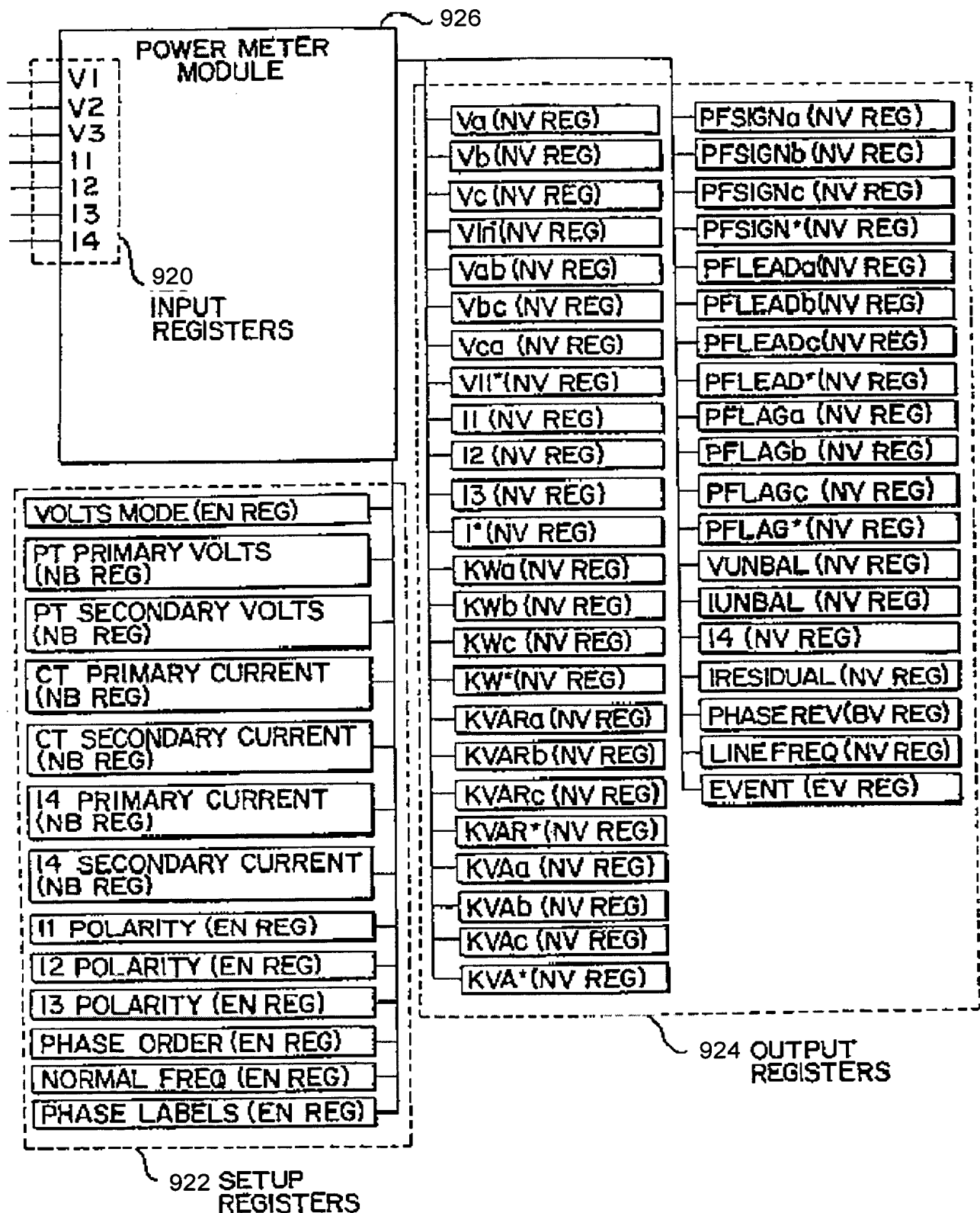
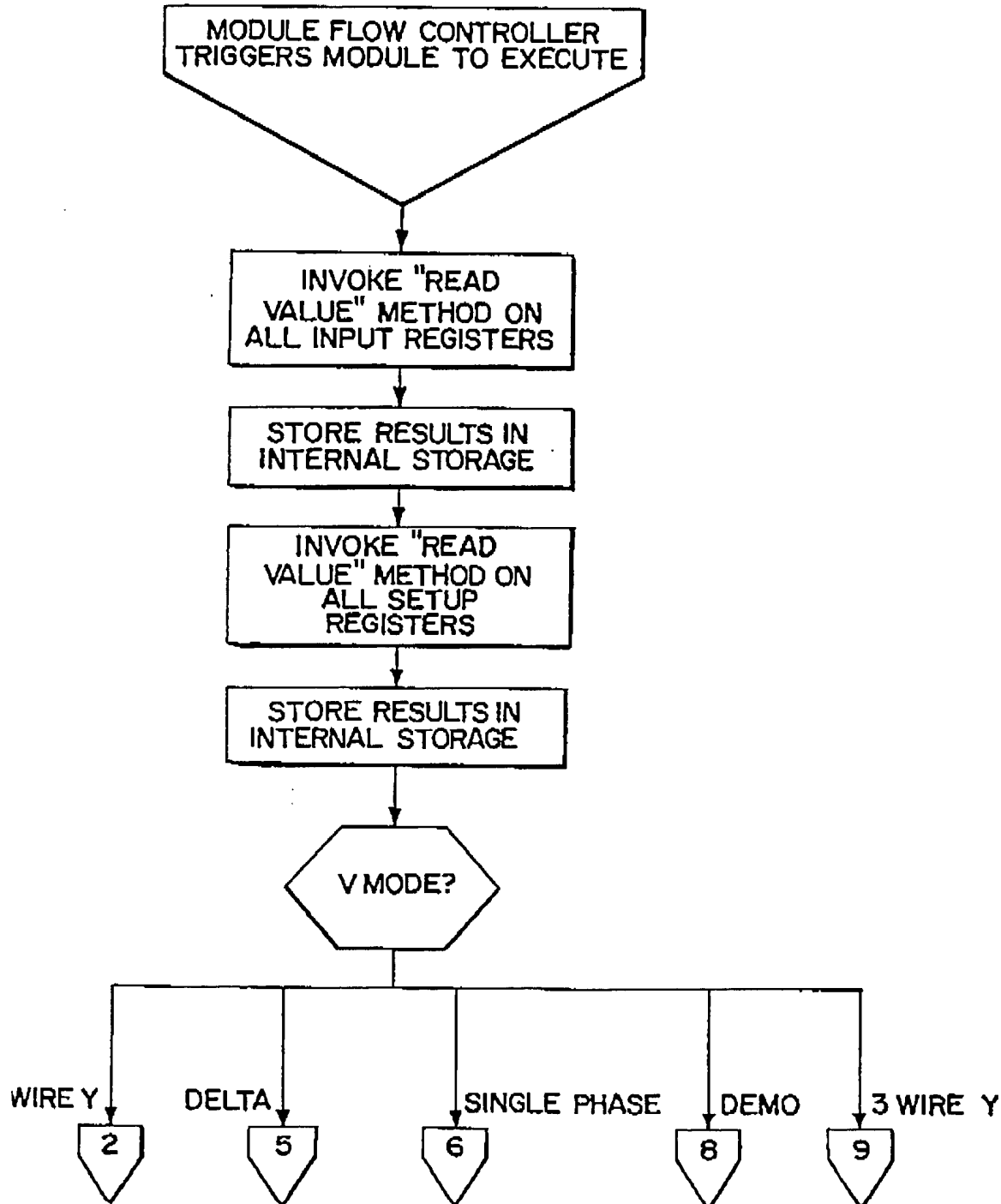


FIG. 12



POWER METER
MODULE
OPERATION
(CLIENT PORTION)

FIG. 12A



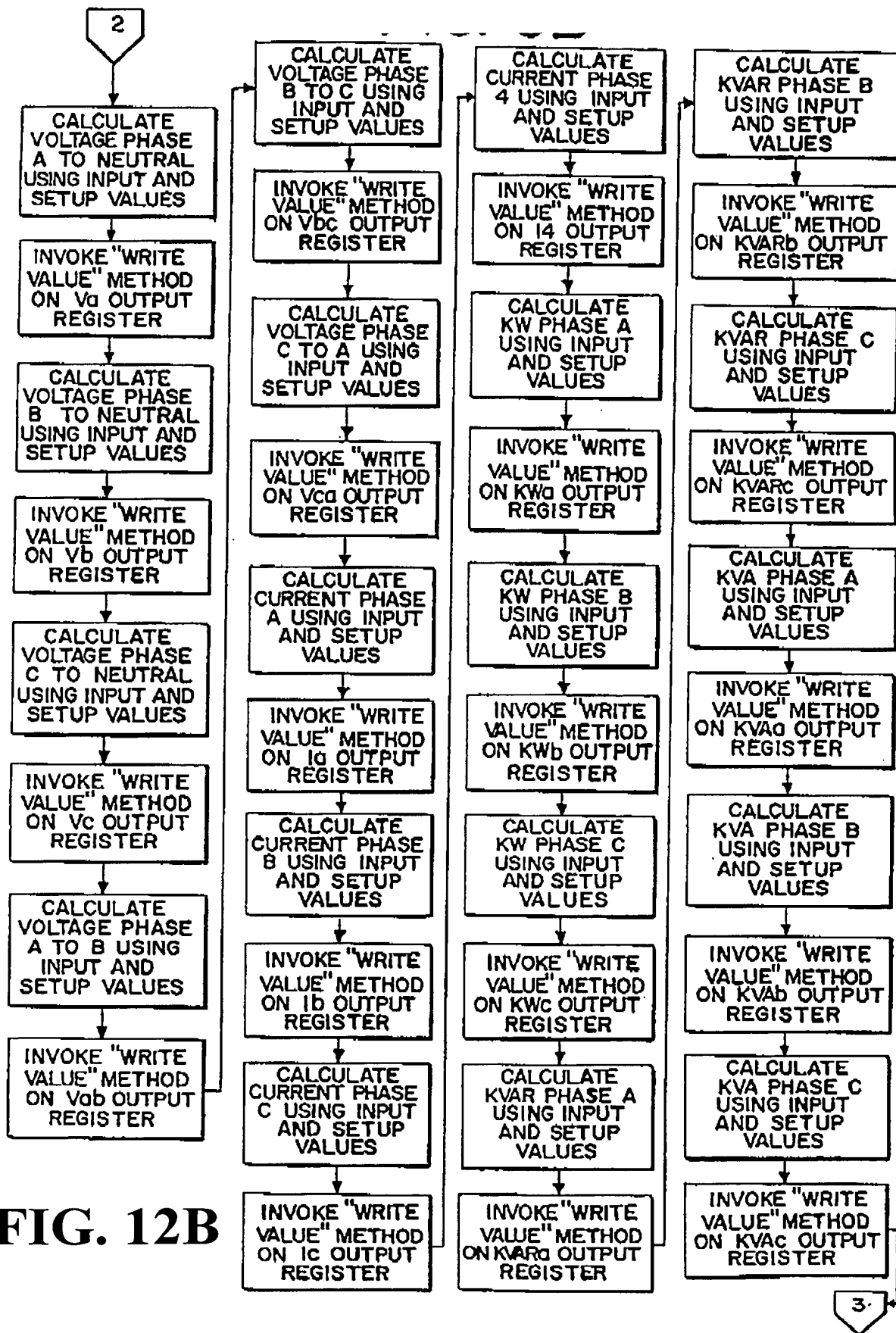


FIG. 12C

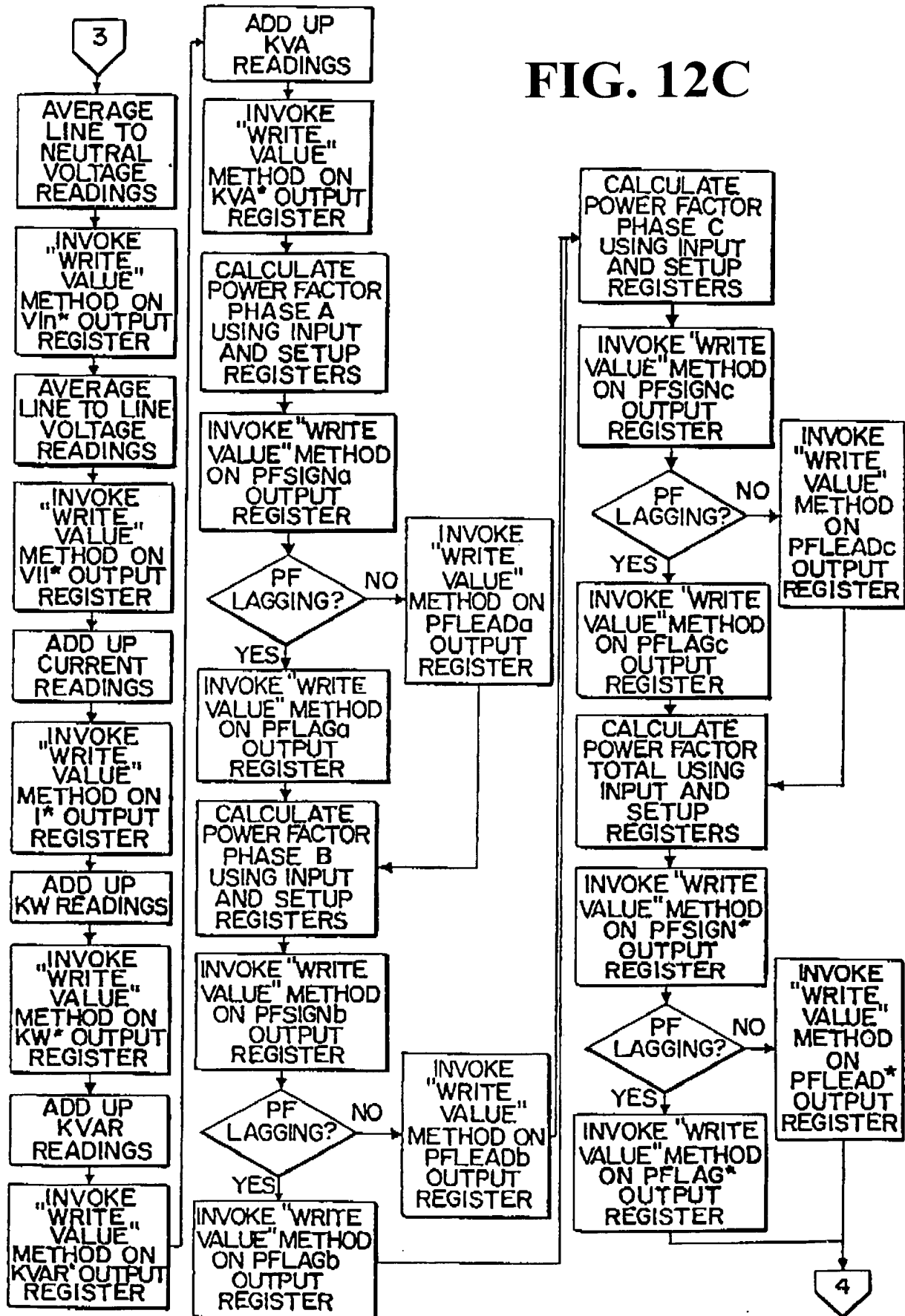


FIG. 12D

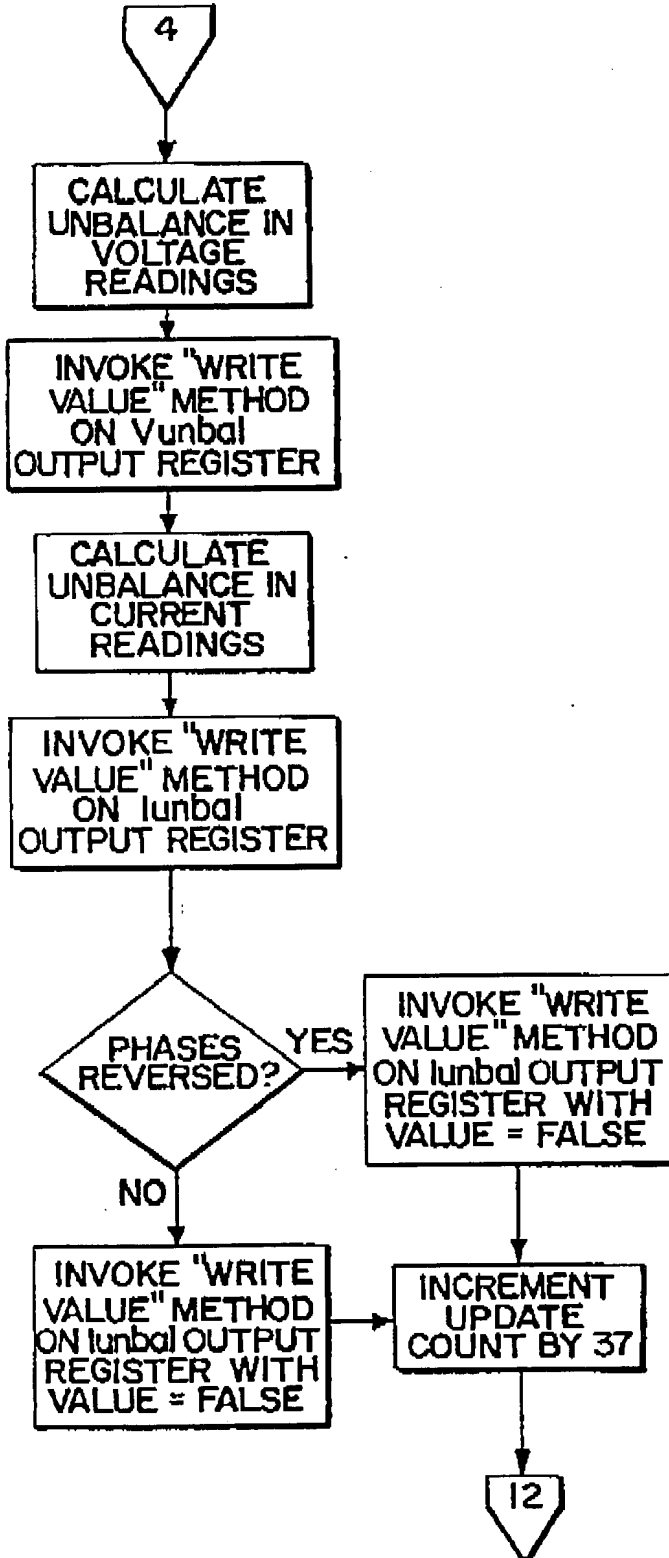


FIG. 12H

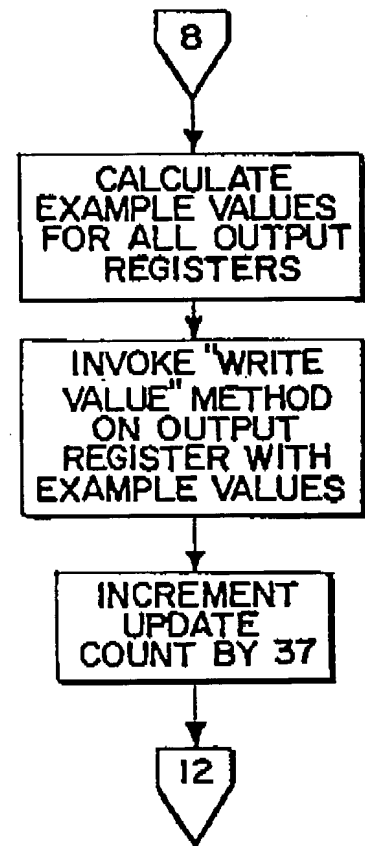


FIG. 12E

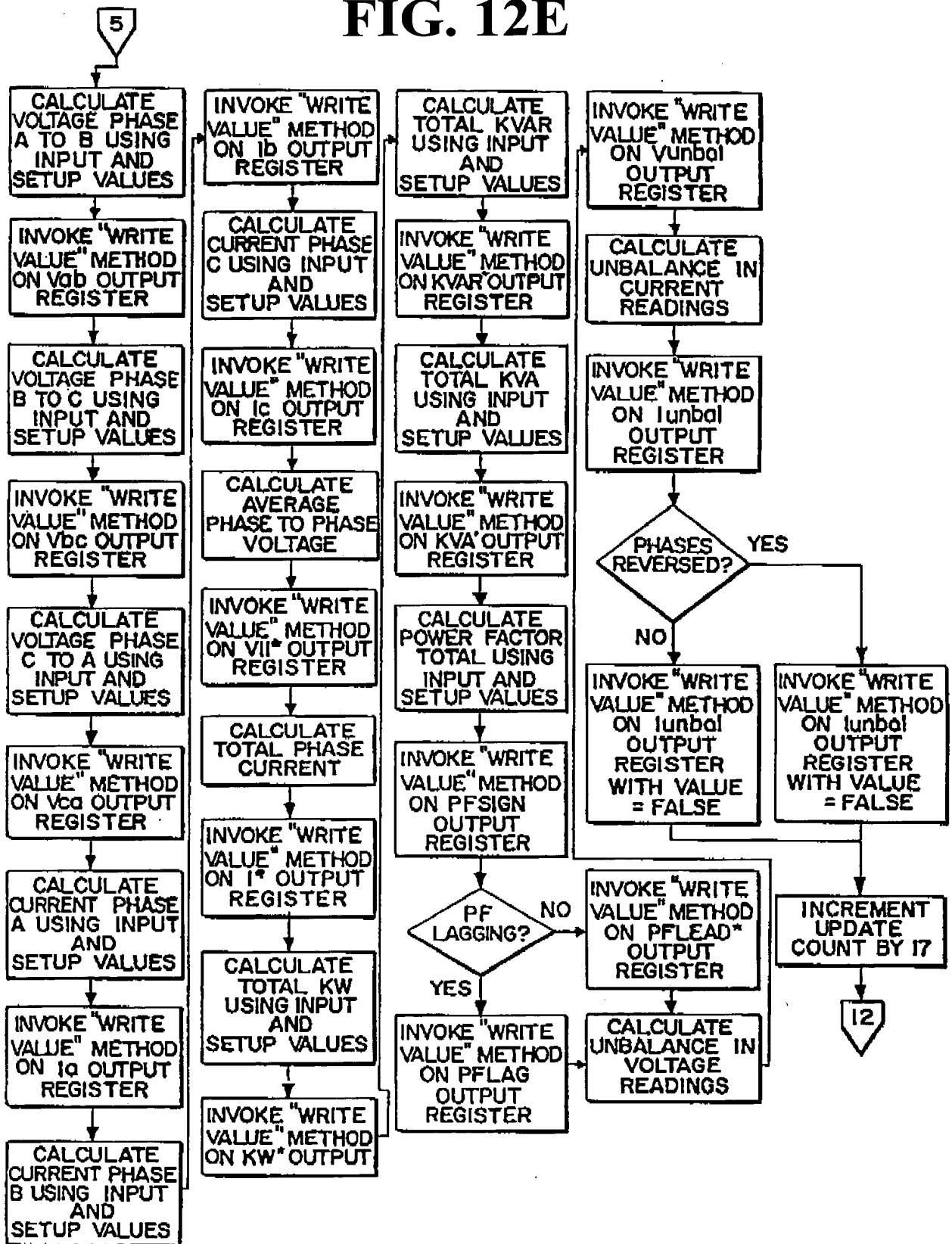


FIG. 12F

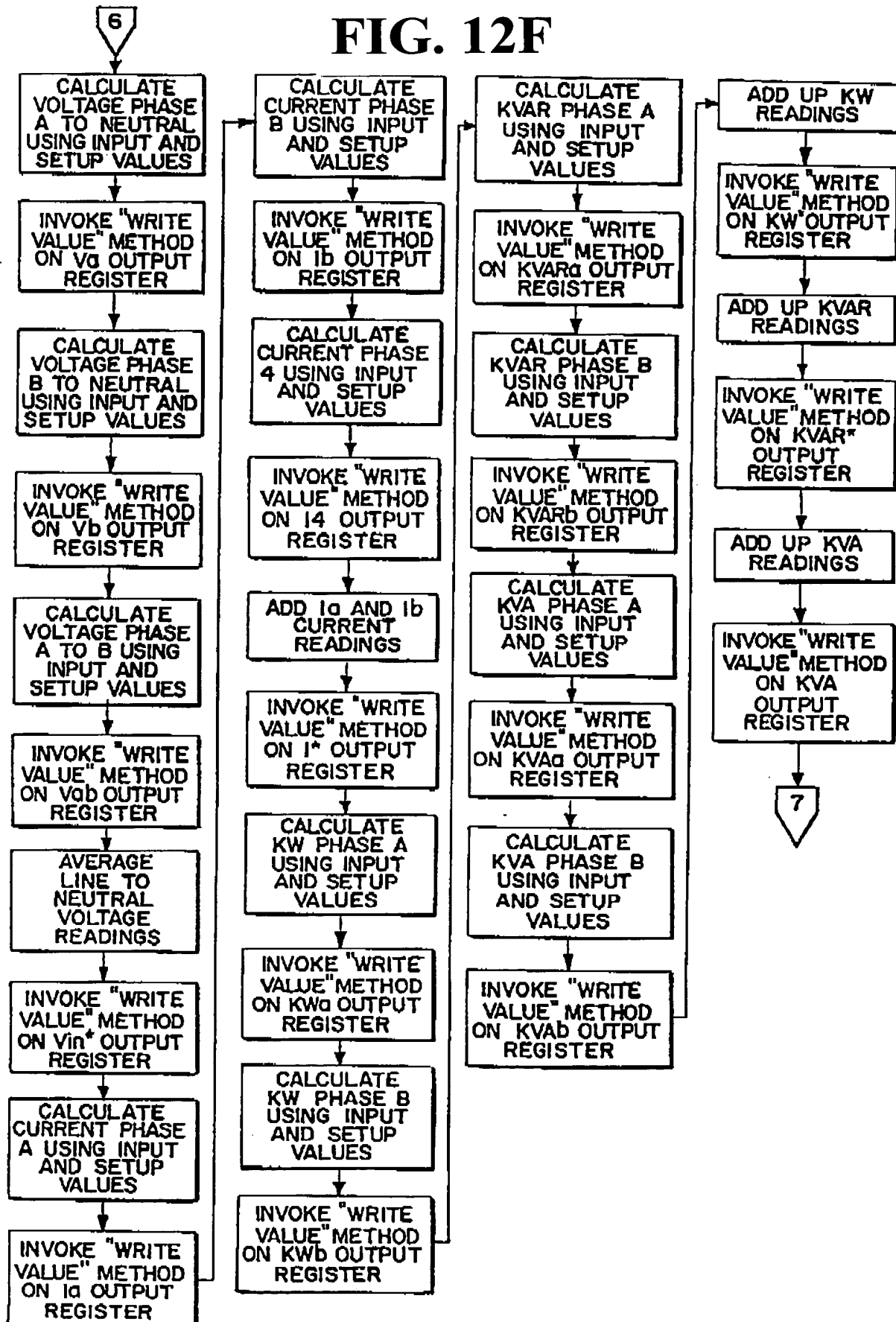
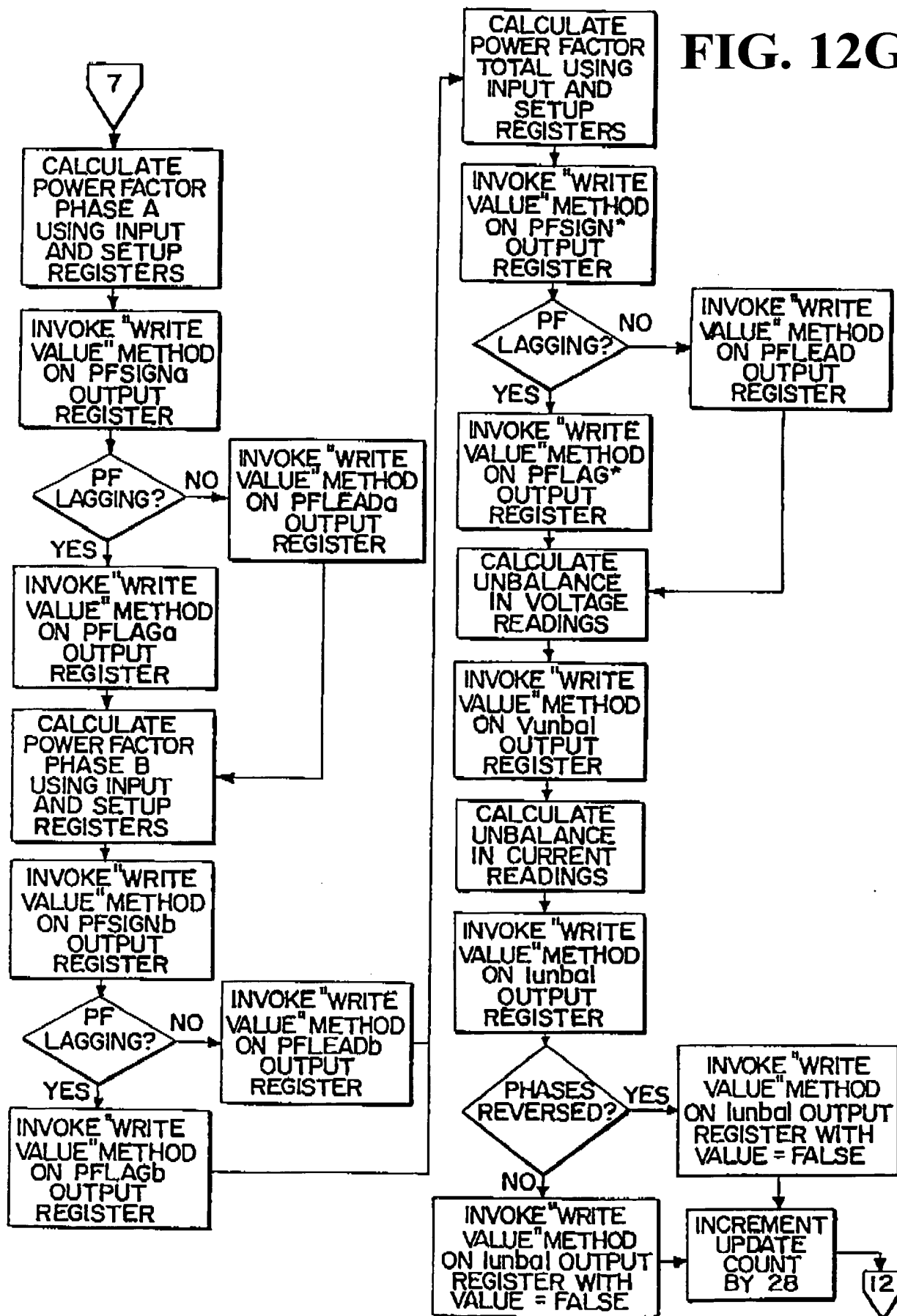


FIG. 12G



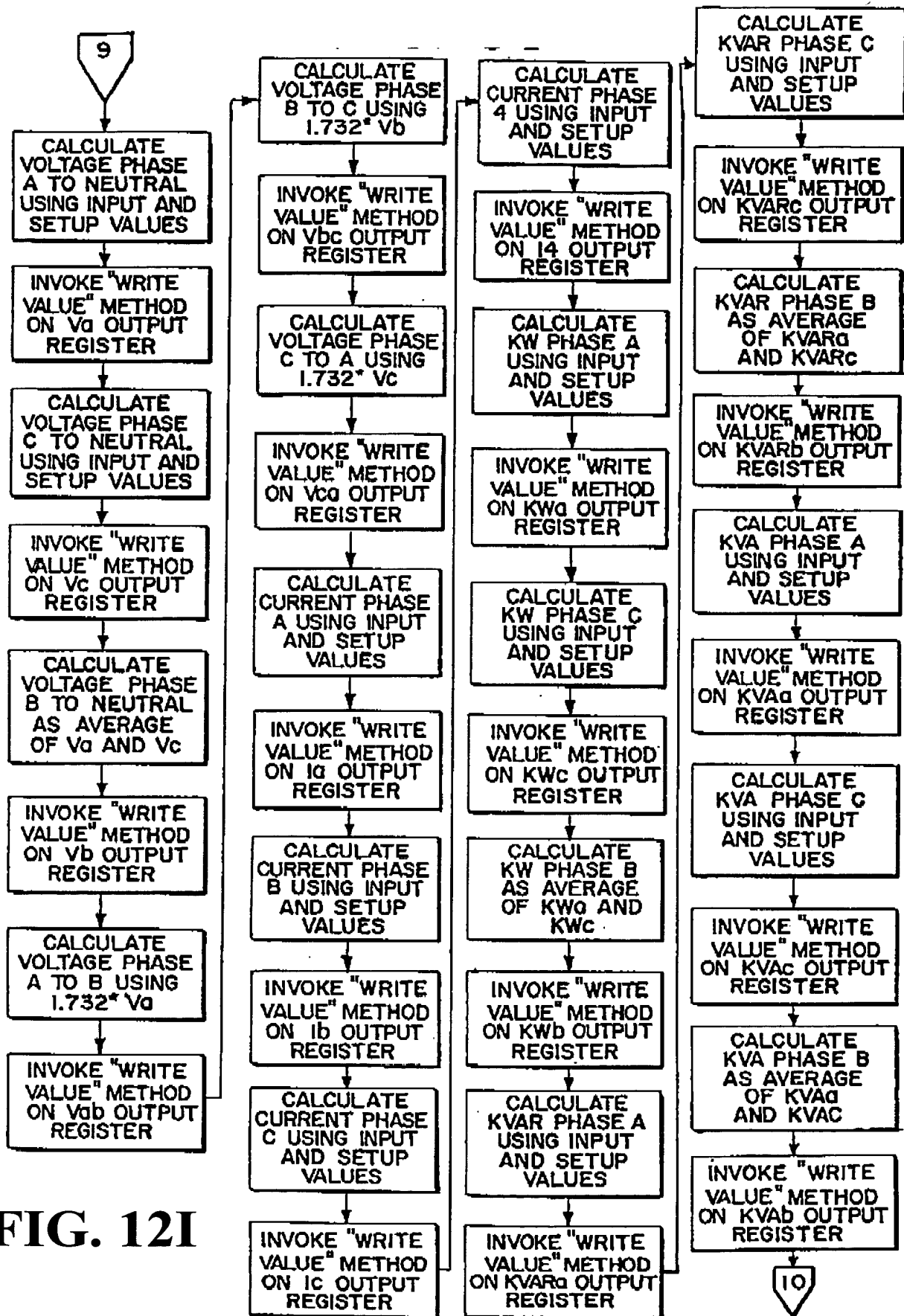


FIG. 12I

FIG. 12J

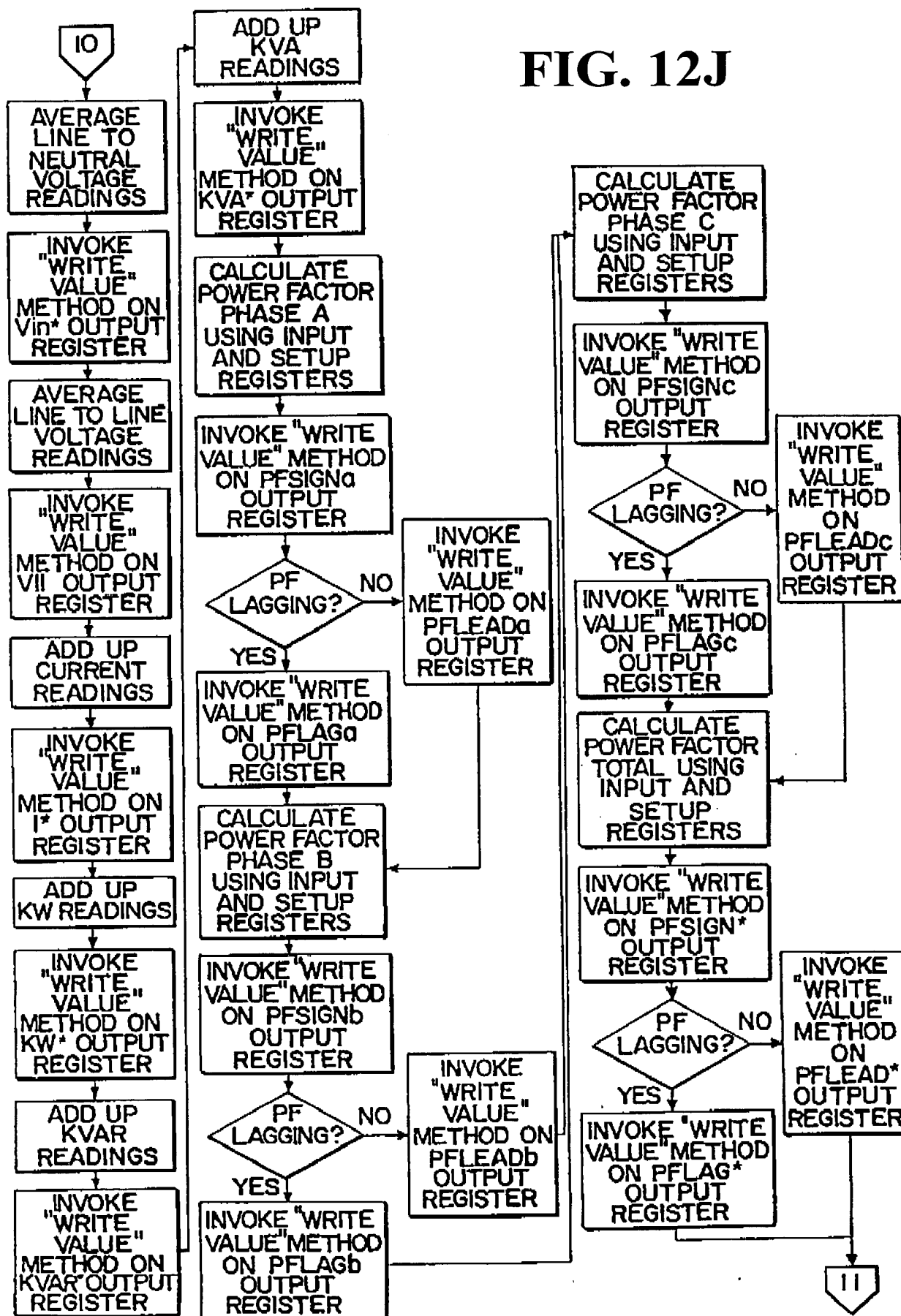


FIG. 12K

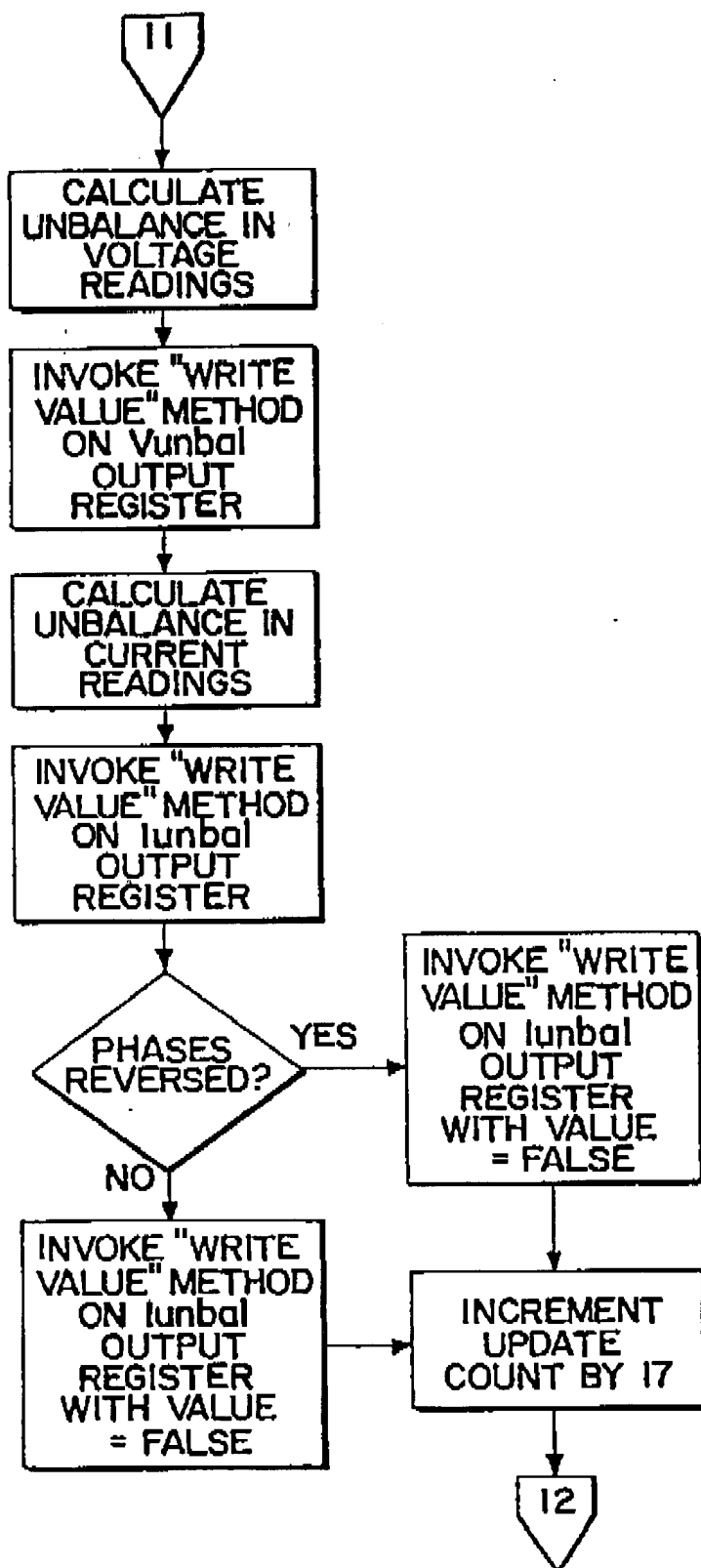


FIG. 12L

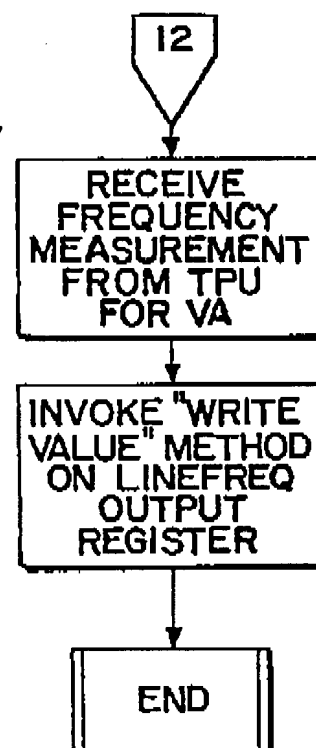


FIG. 13

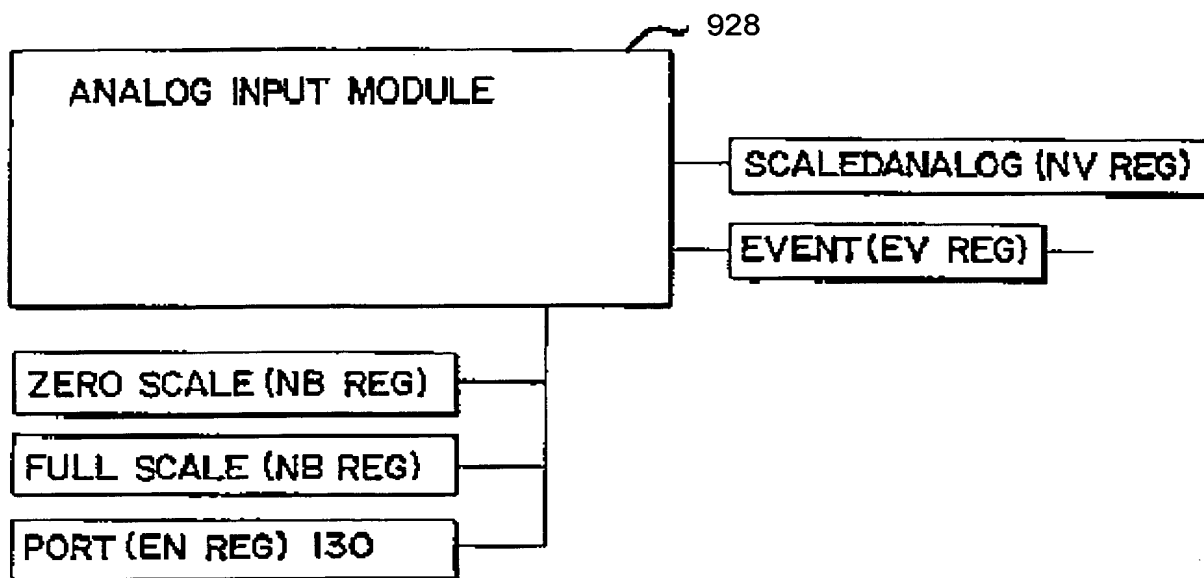


FIG. 14

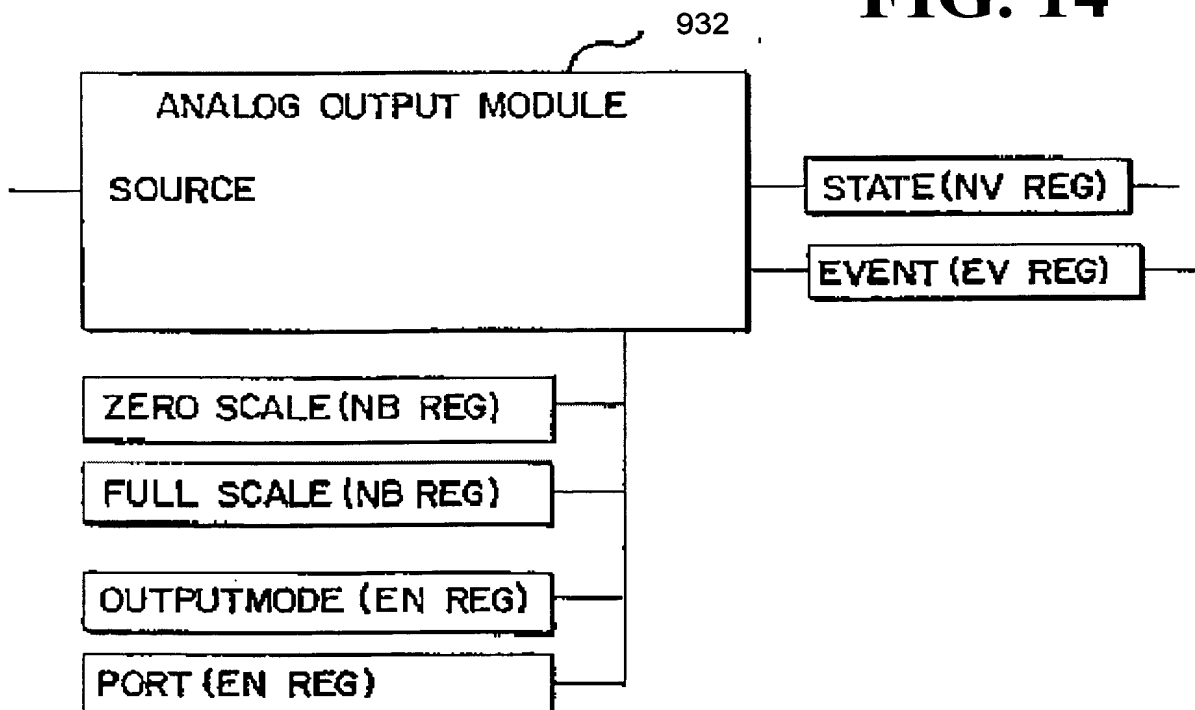


FIG. 13A

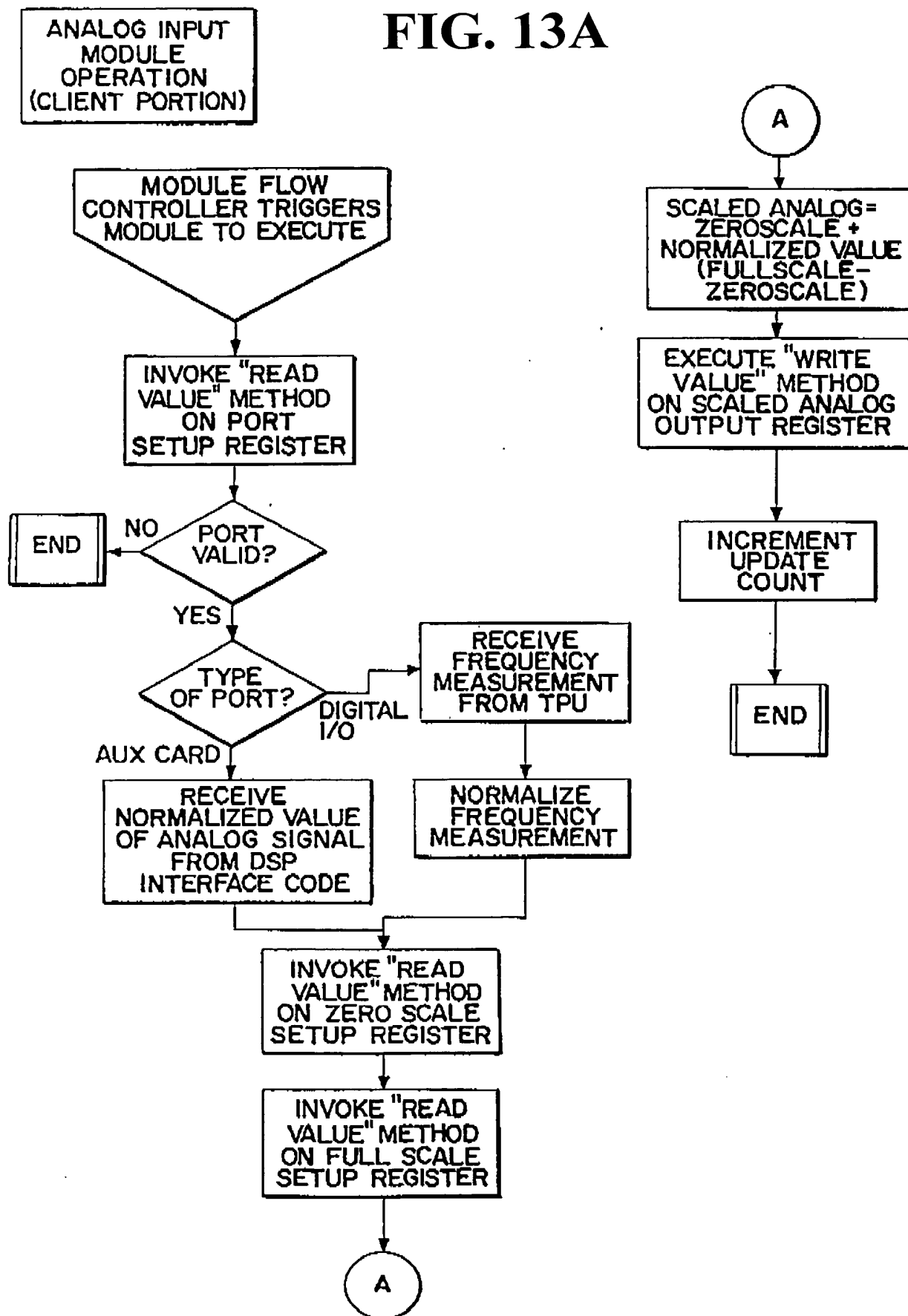


FIG. 14A

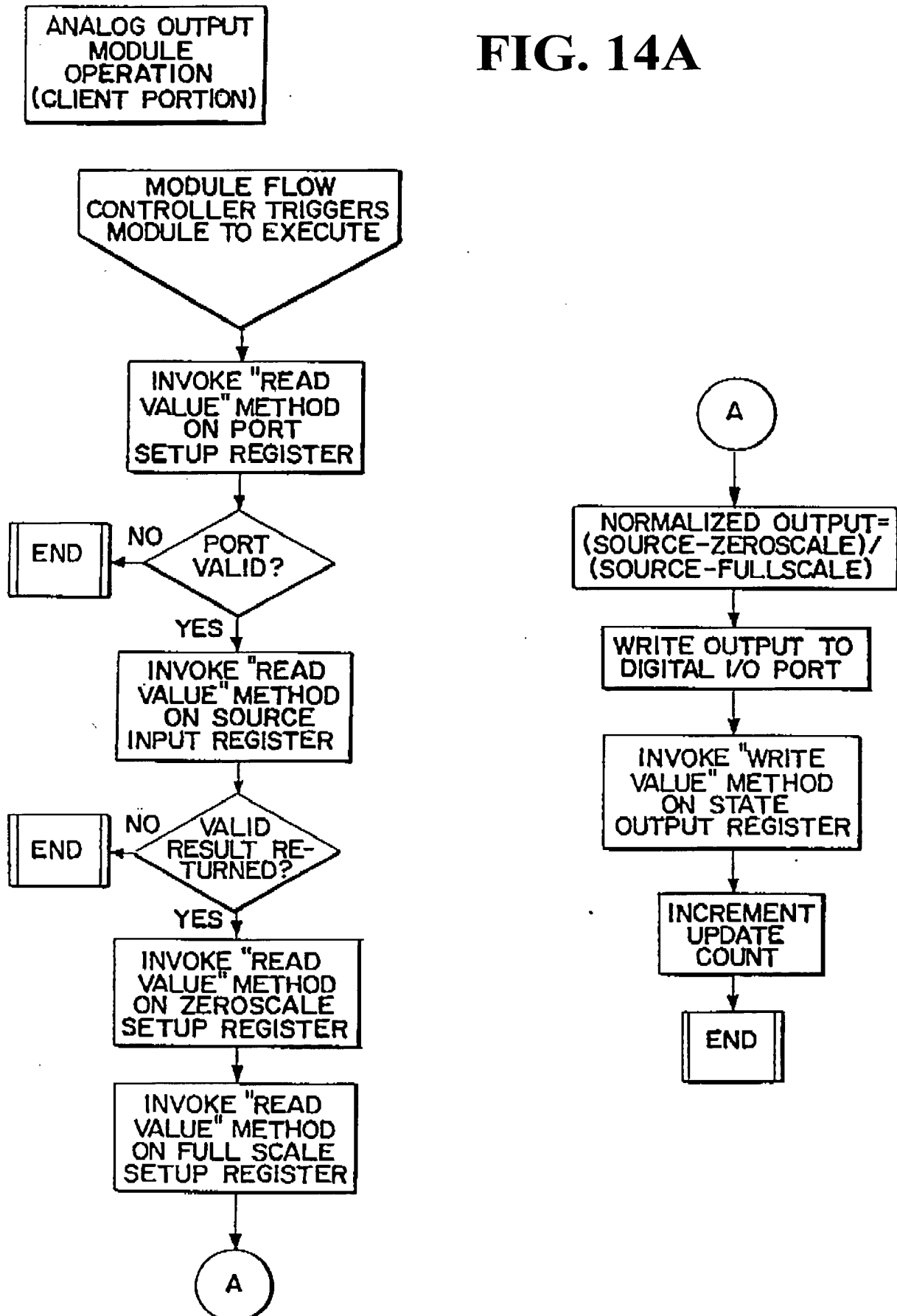


FIG. 15

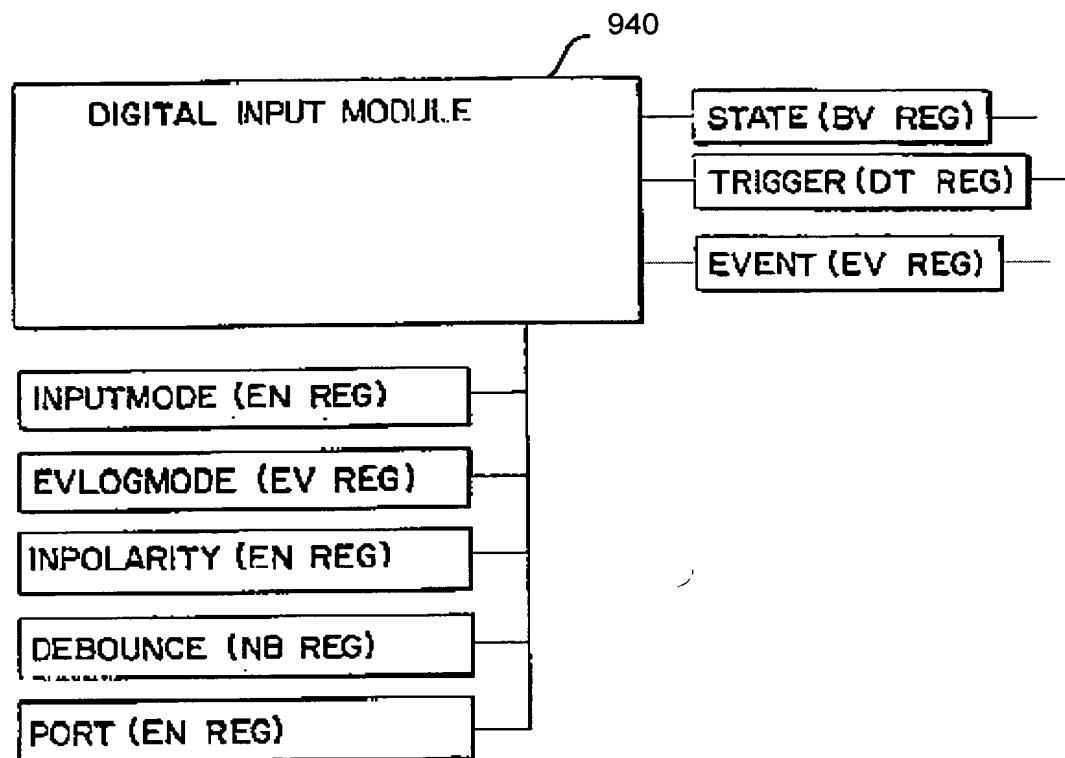


FIG. 16

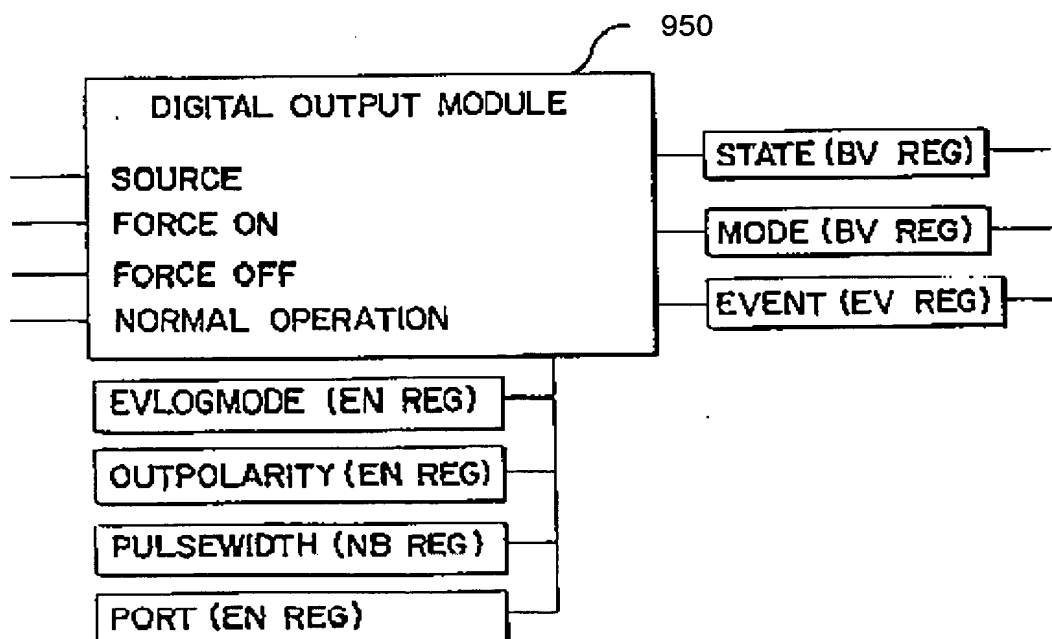


FIG. 15A

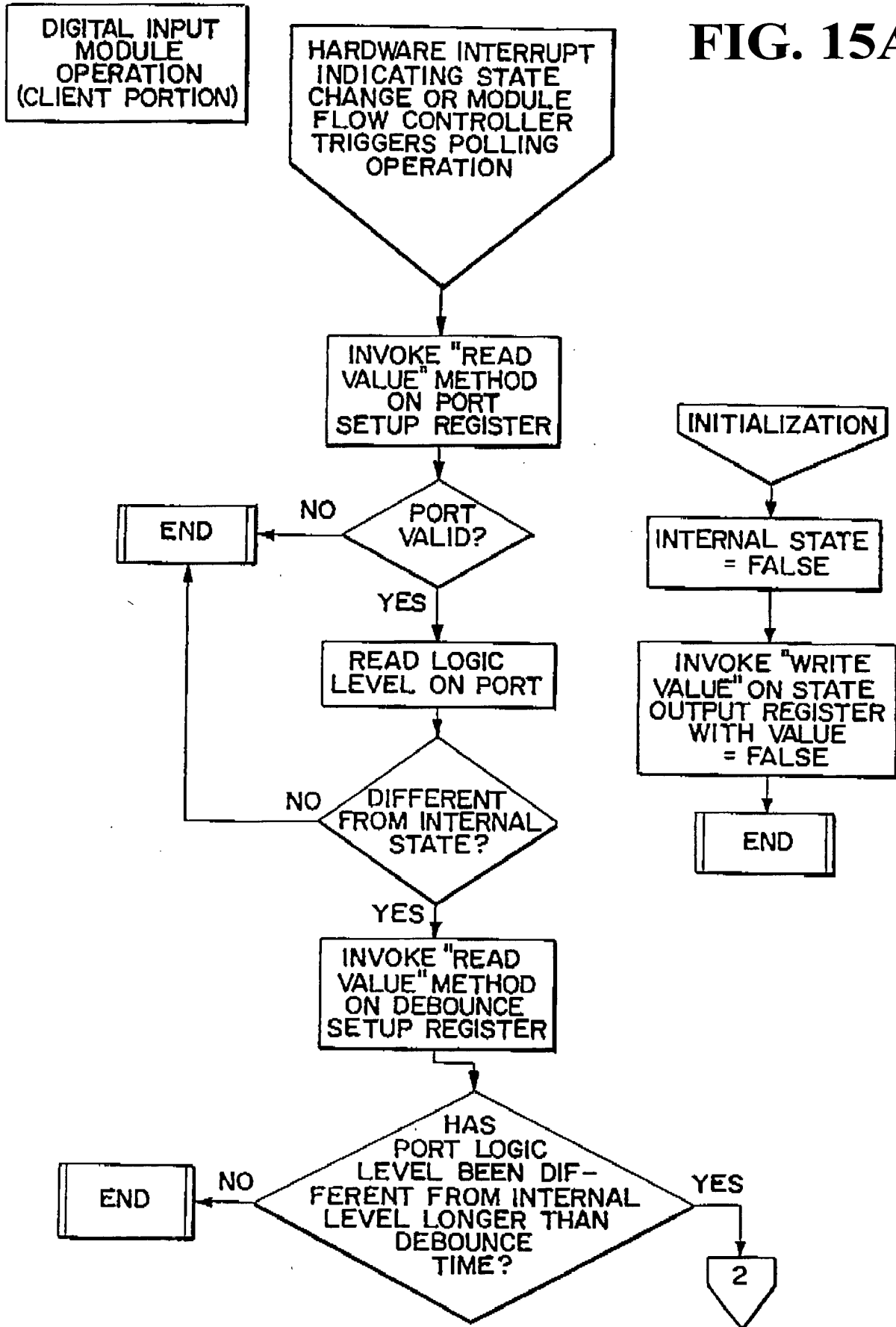


FIG. 15B

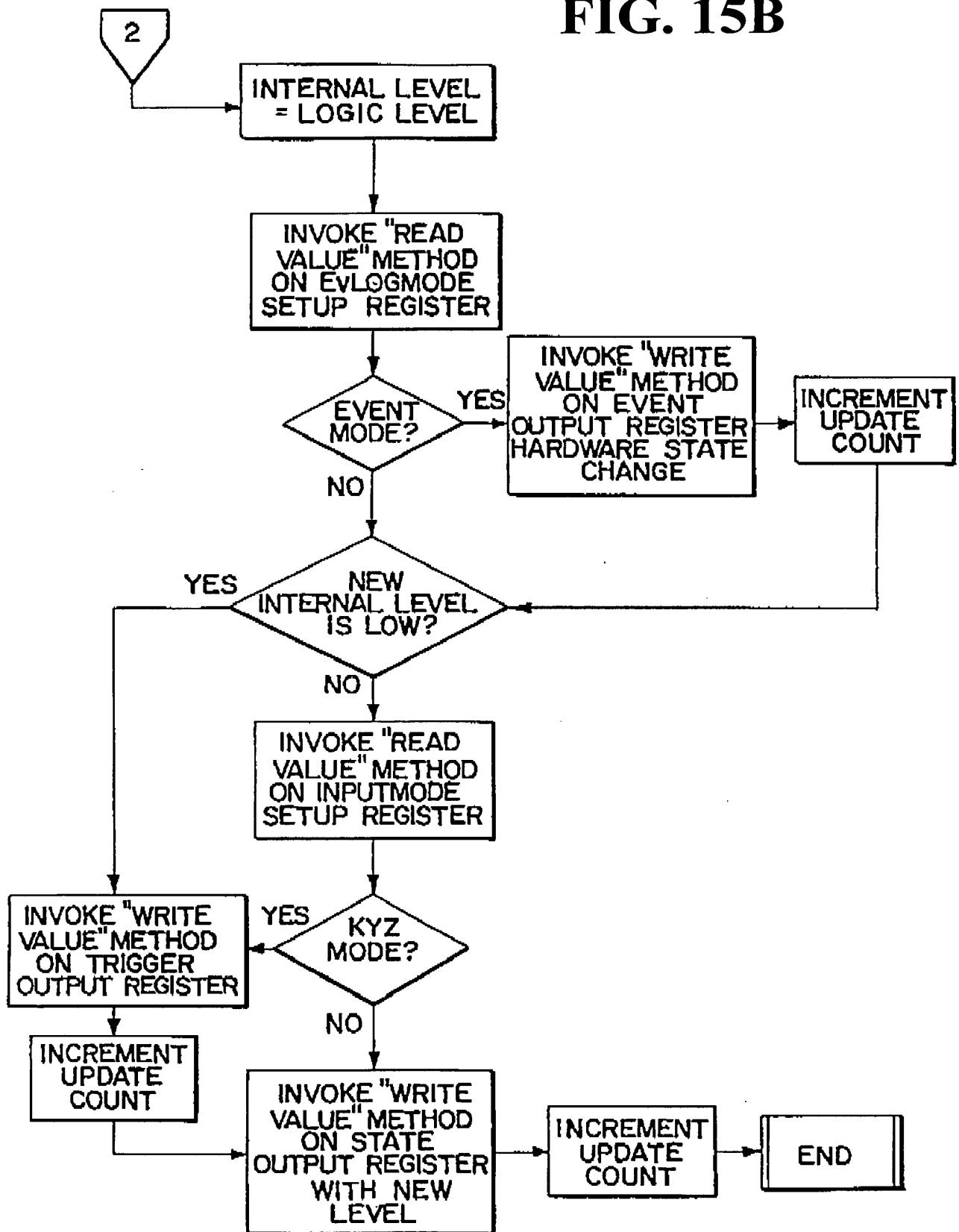


FIG. 16A

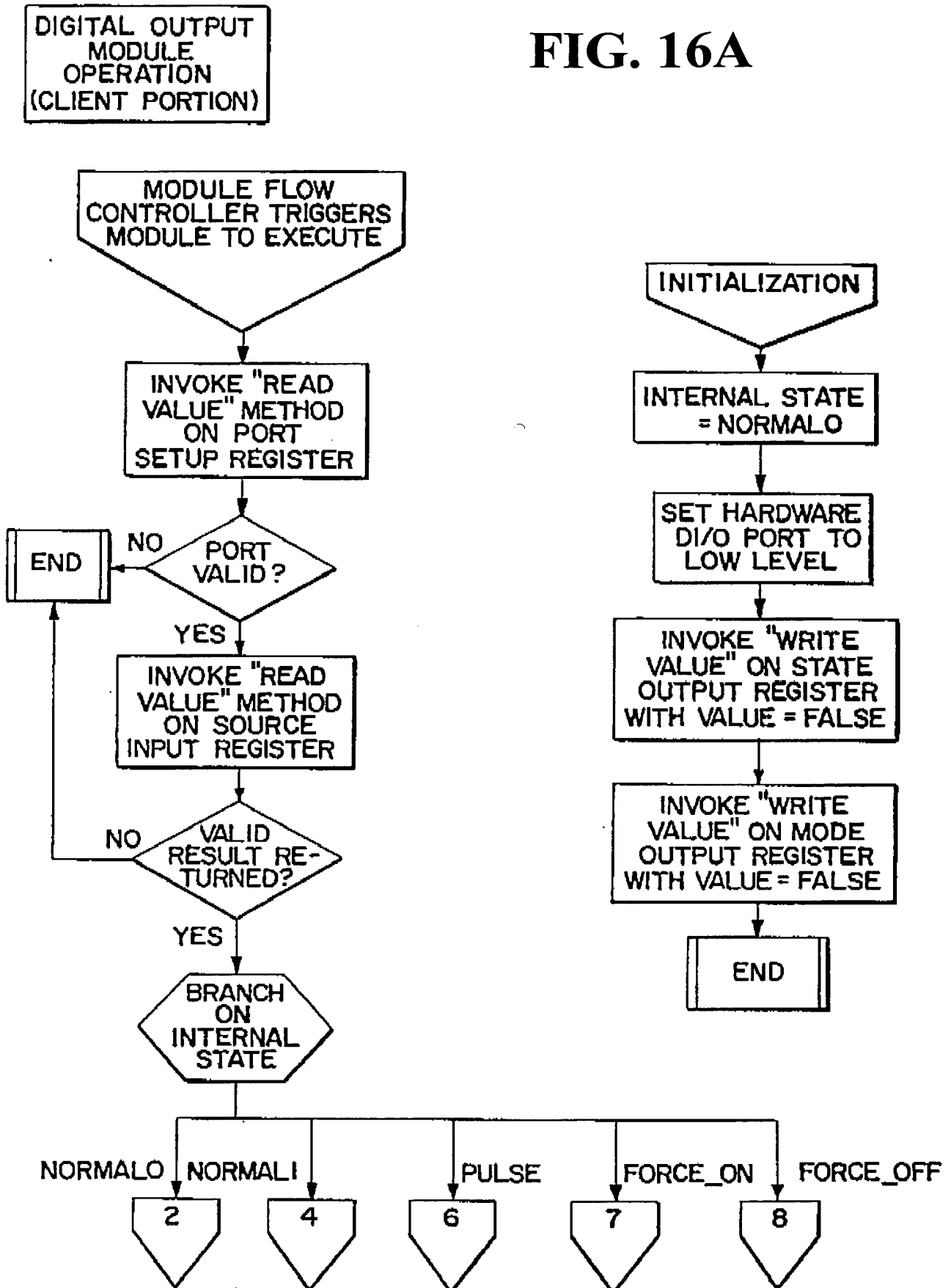


FIG. 16B

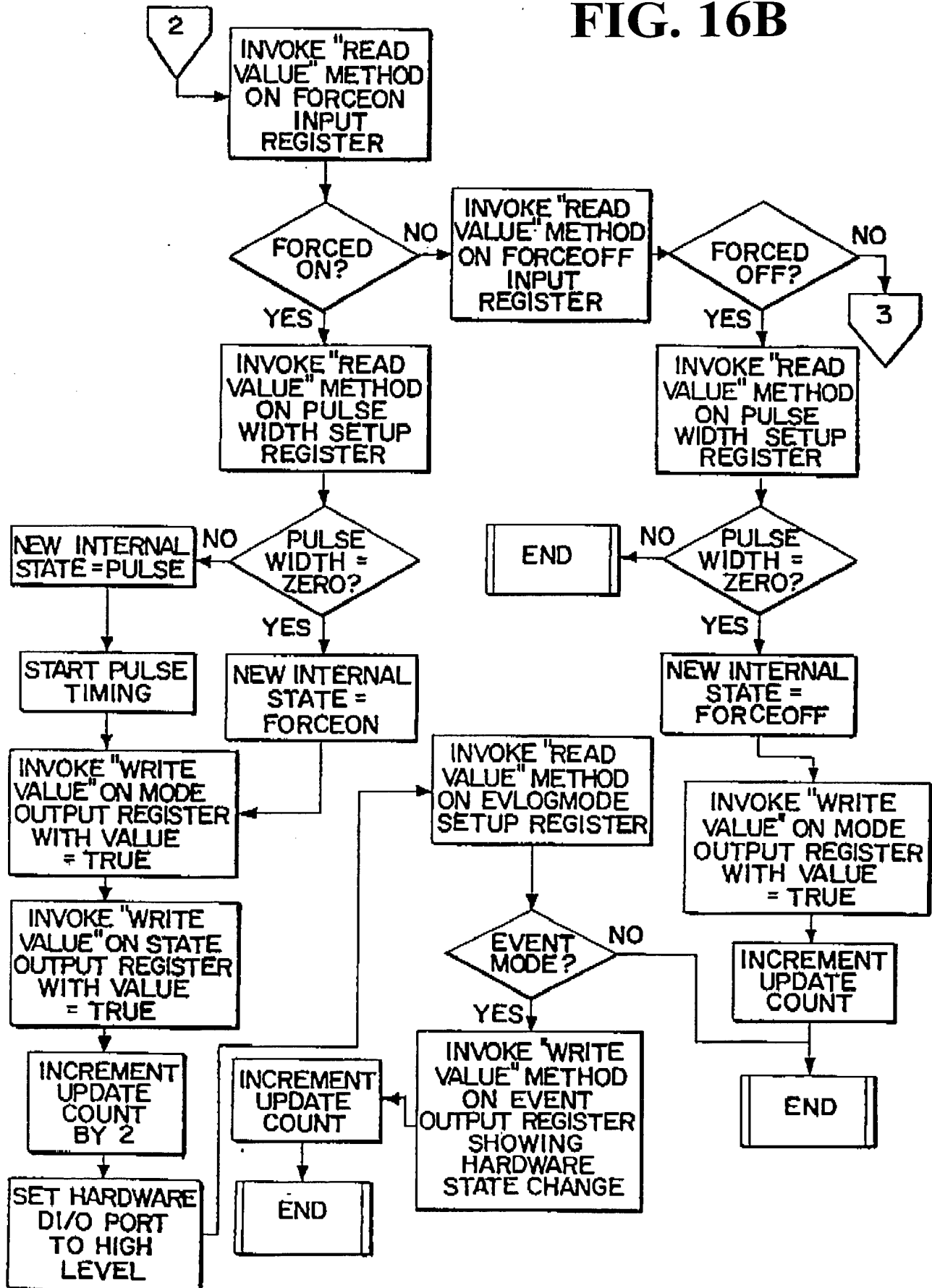


FIG. 16C

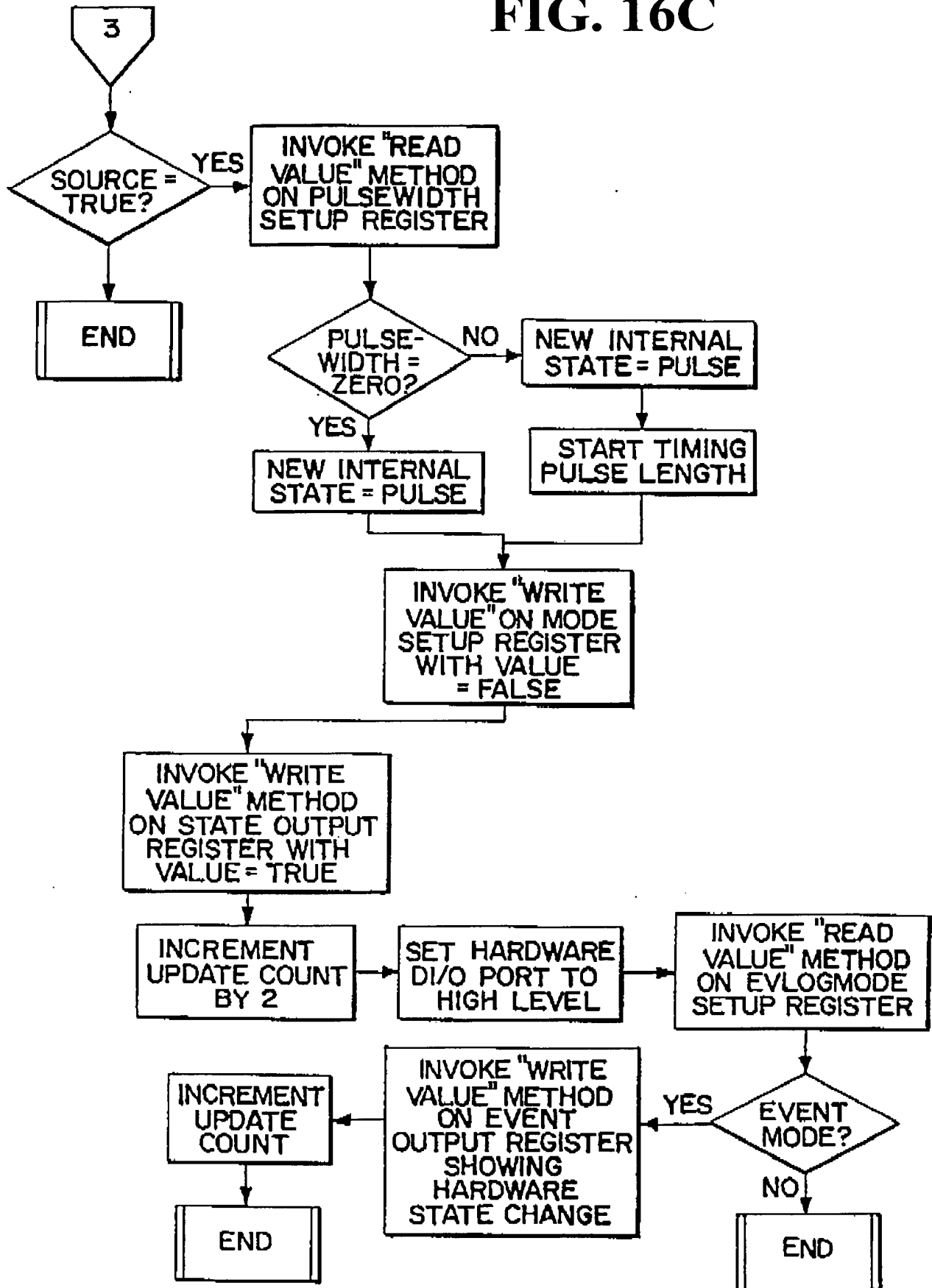


FIG. 16D

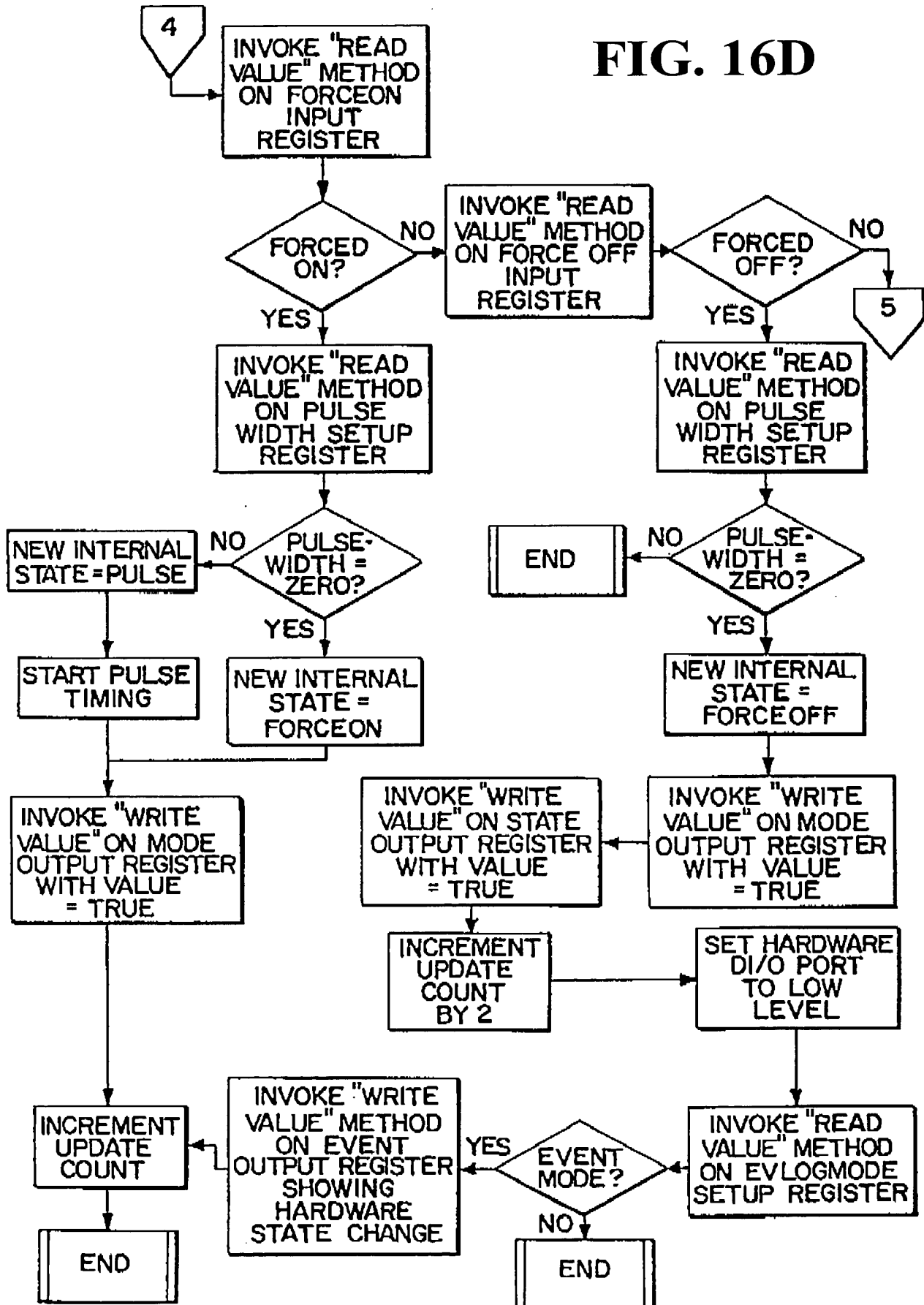


FIG. 16E

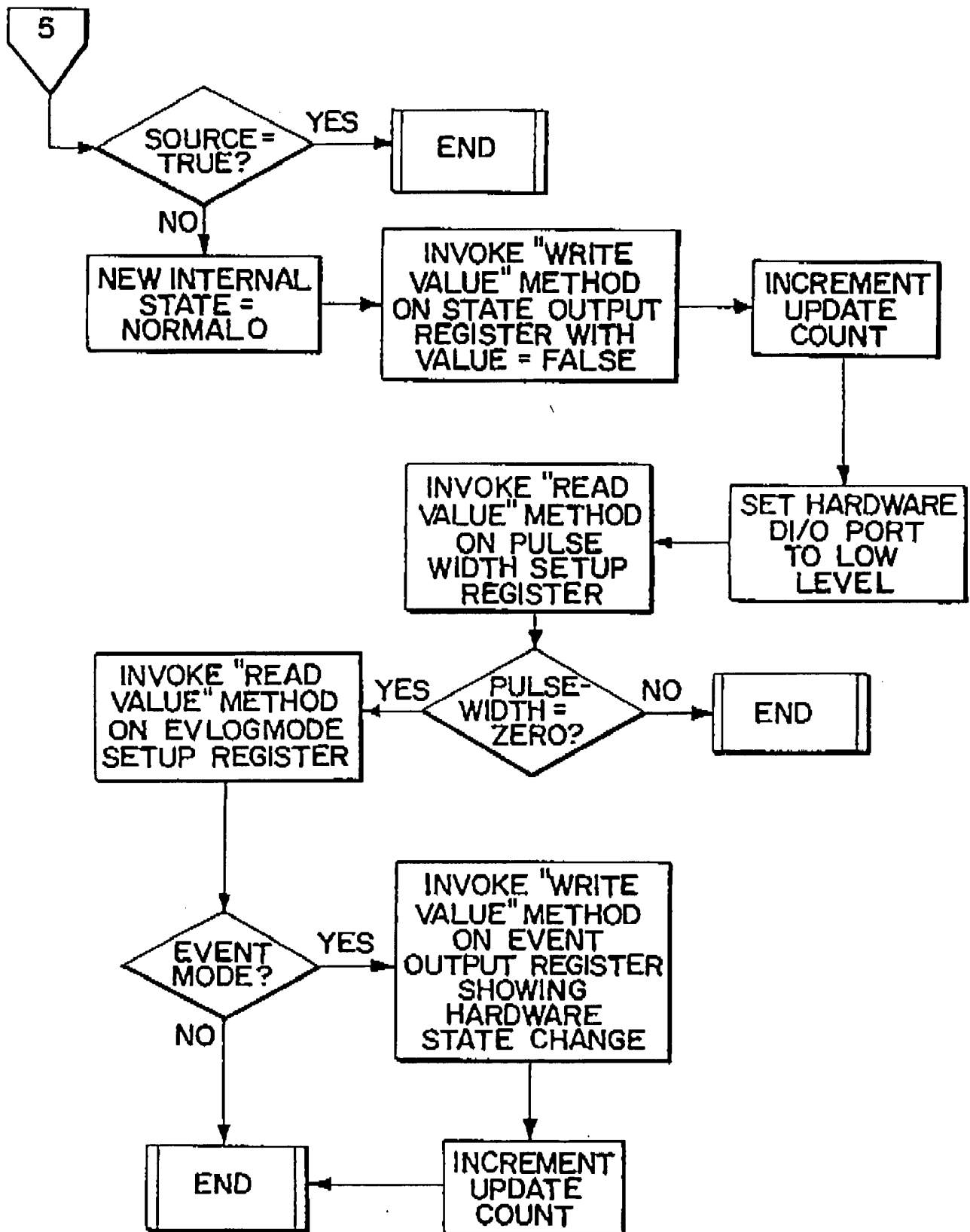


FIG. 16F

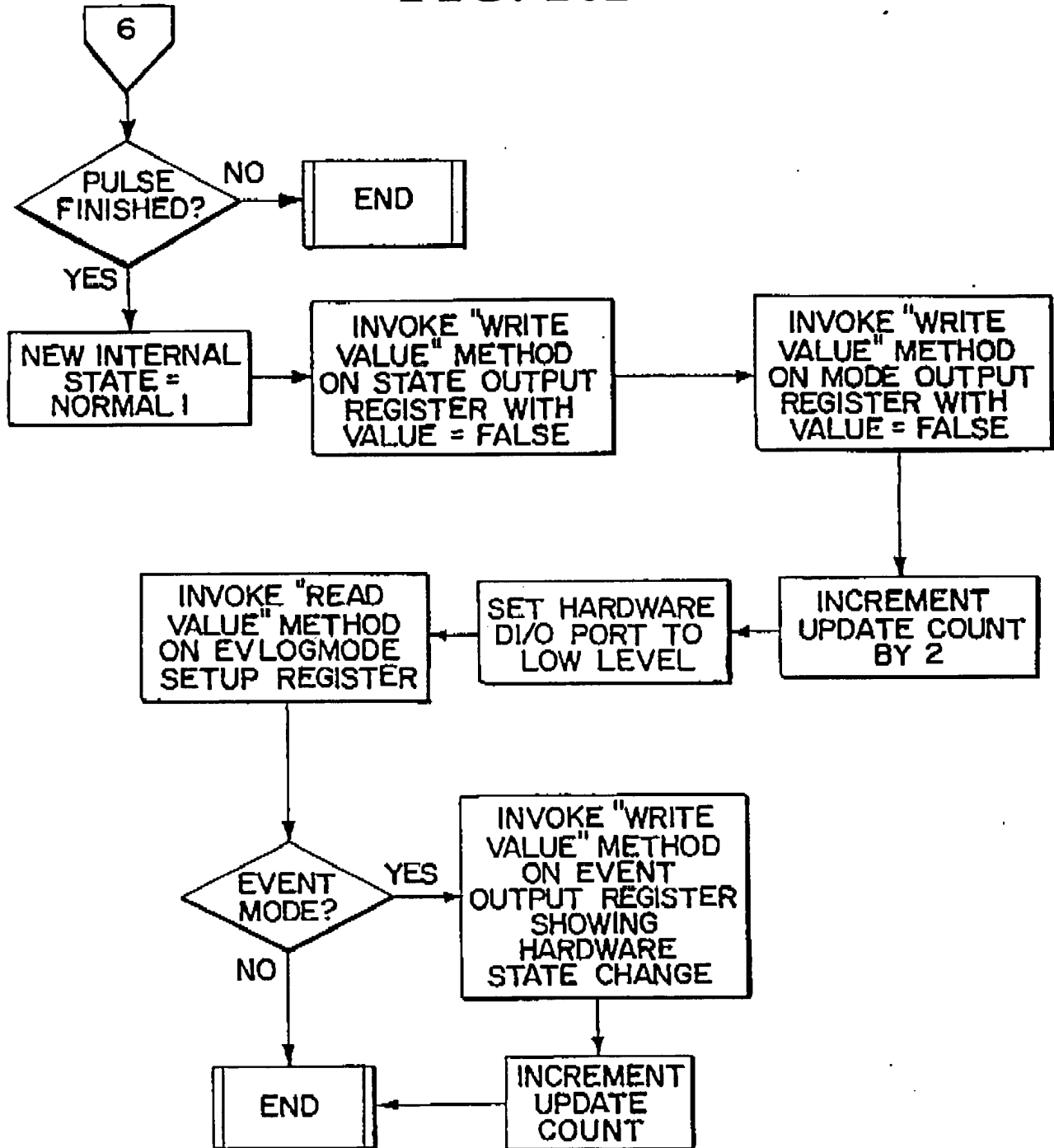


FIG. 16G

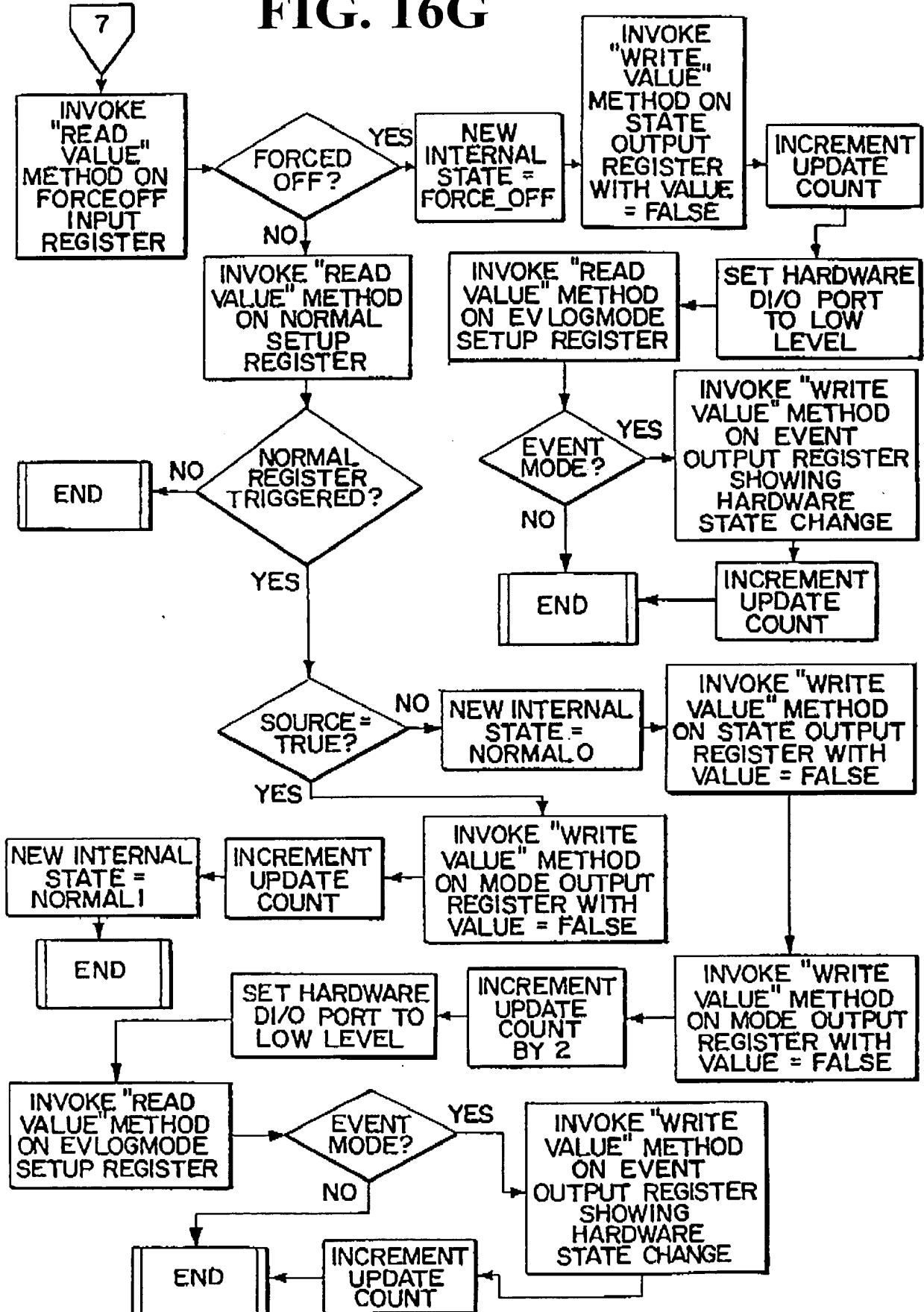


FIG. 16H

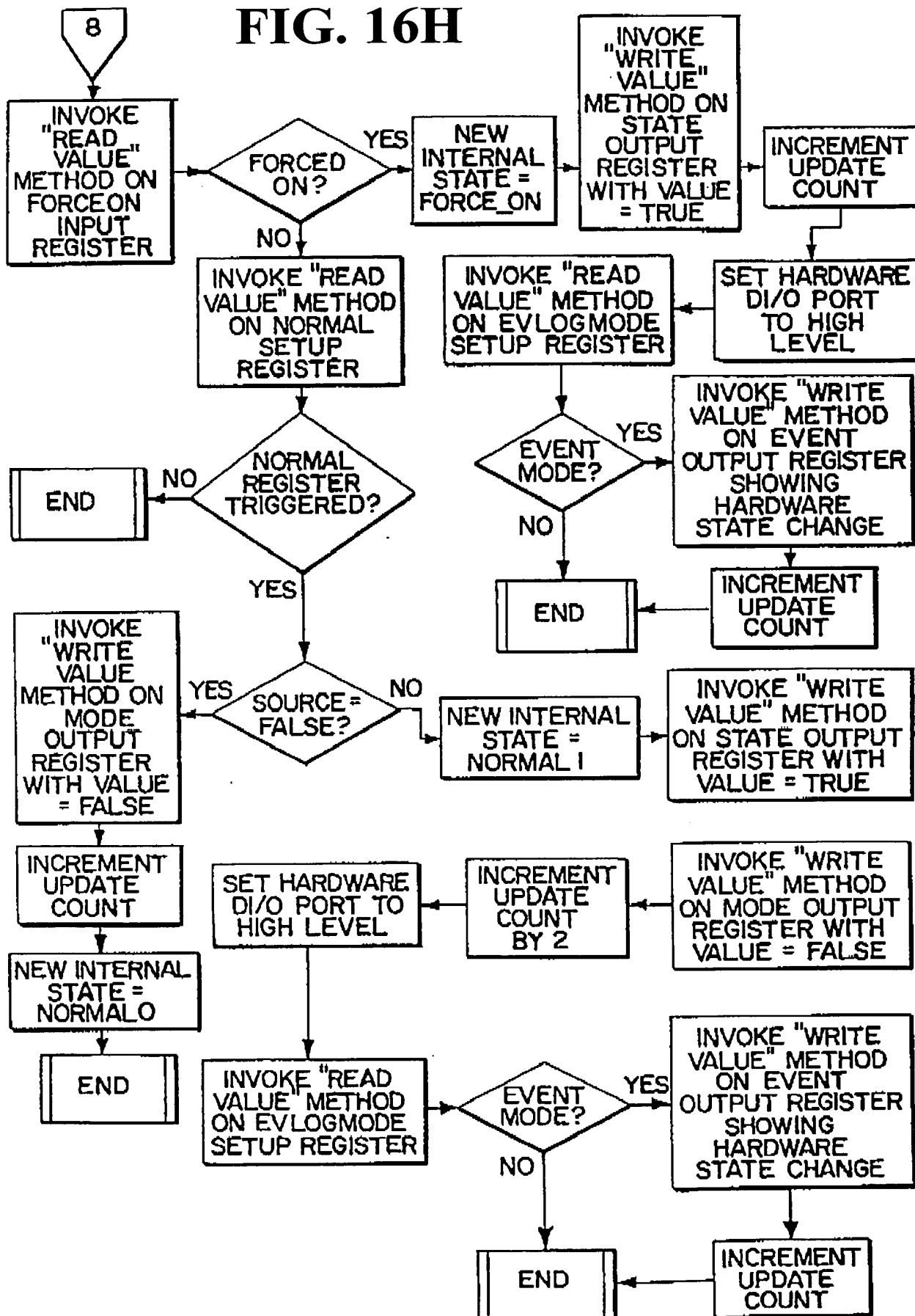


FIG. 17

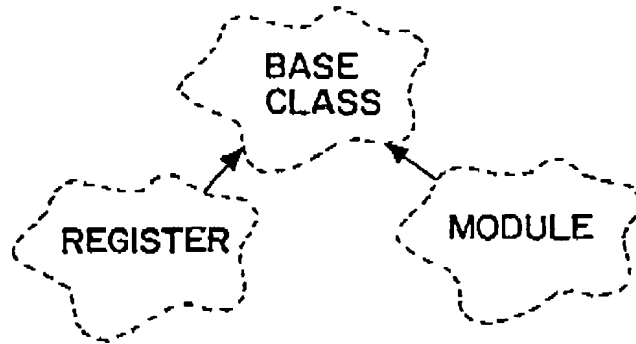


FIG. 17A

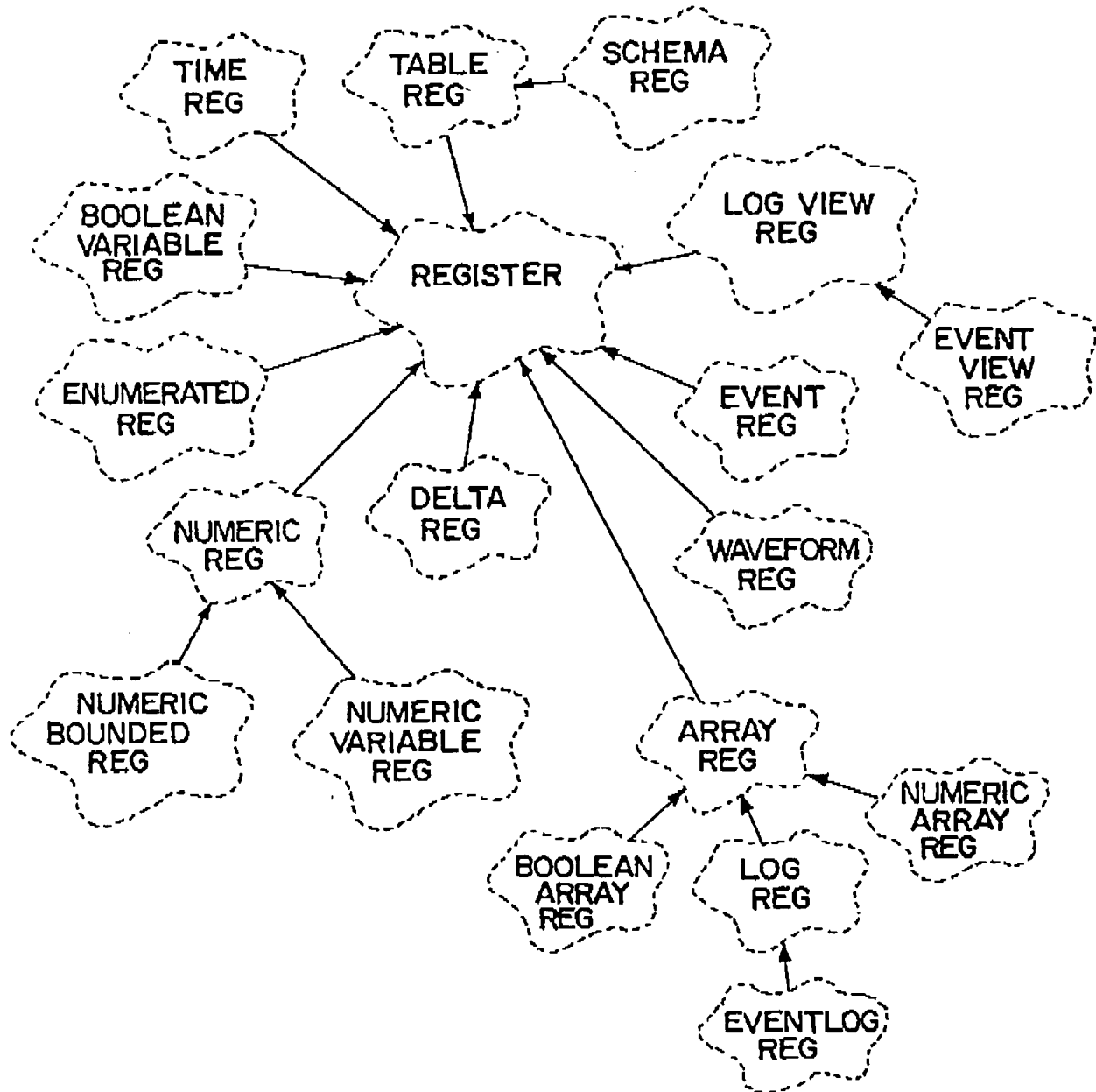


FIG. 17B

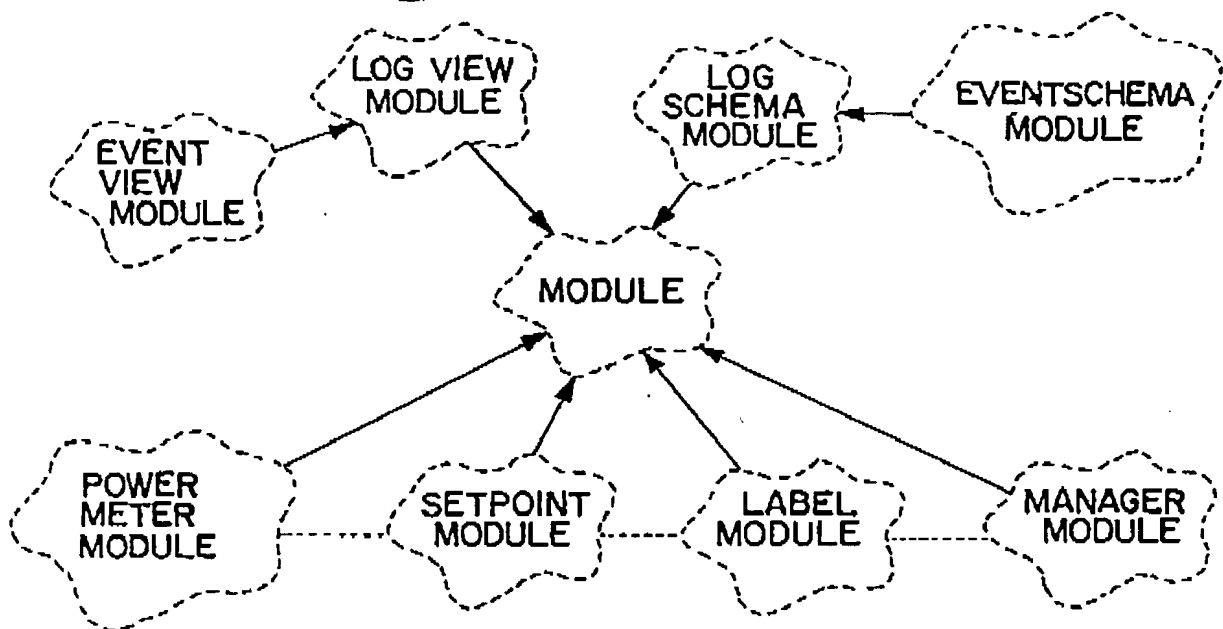


FIG. 17C

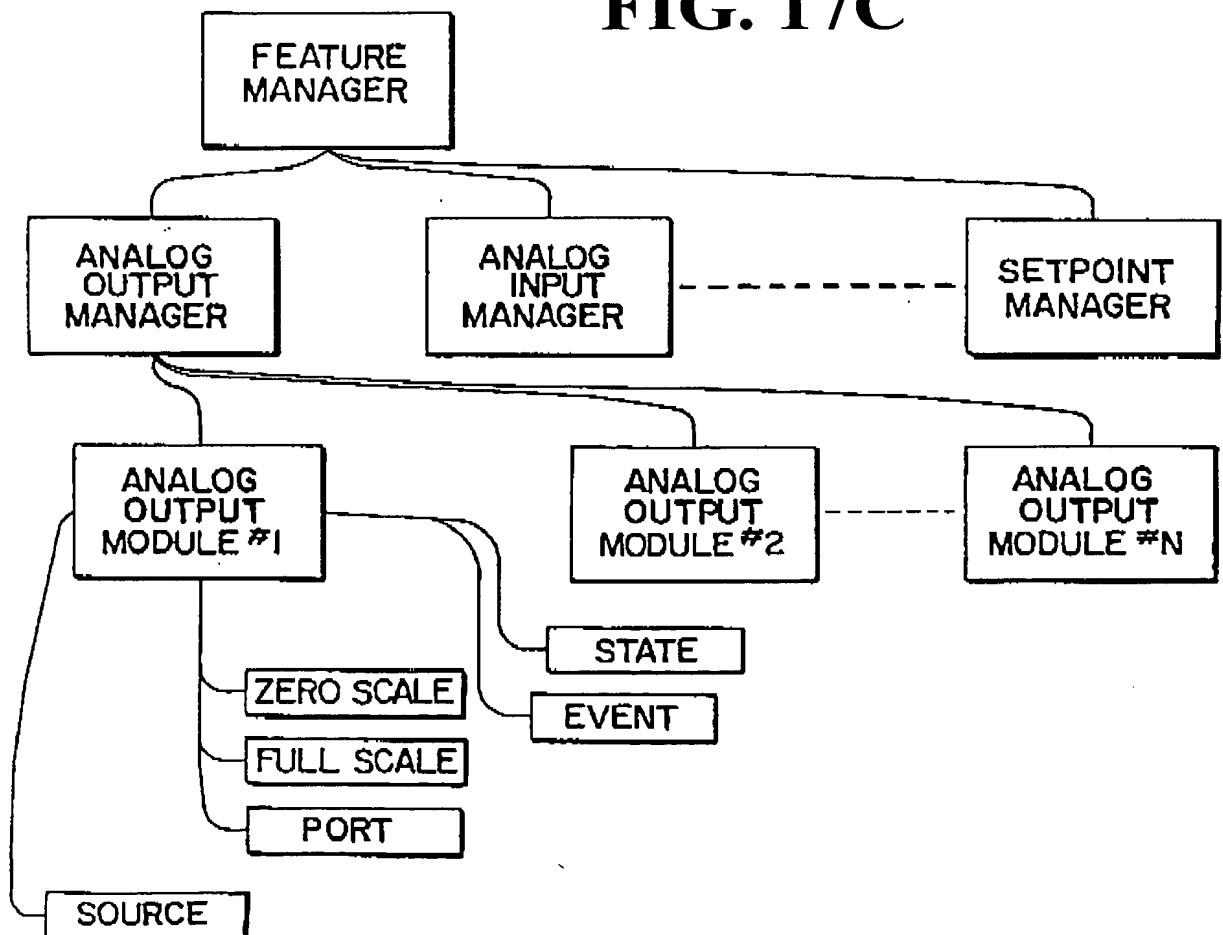


FIG. 18

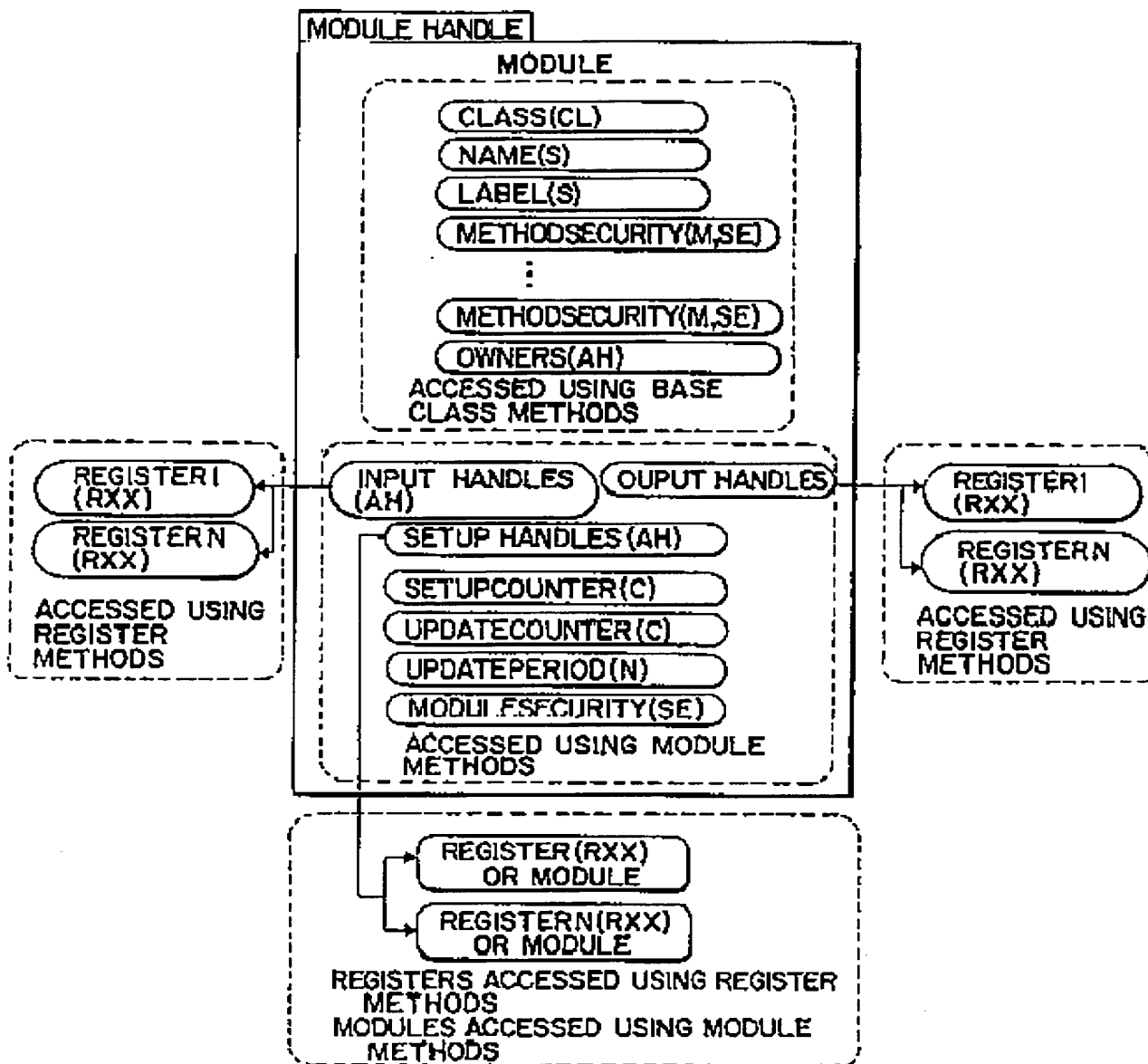


FIG. 19

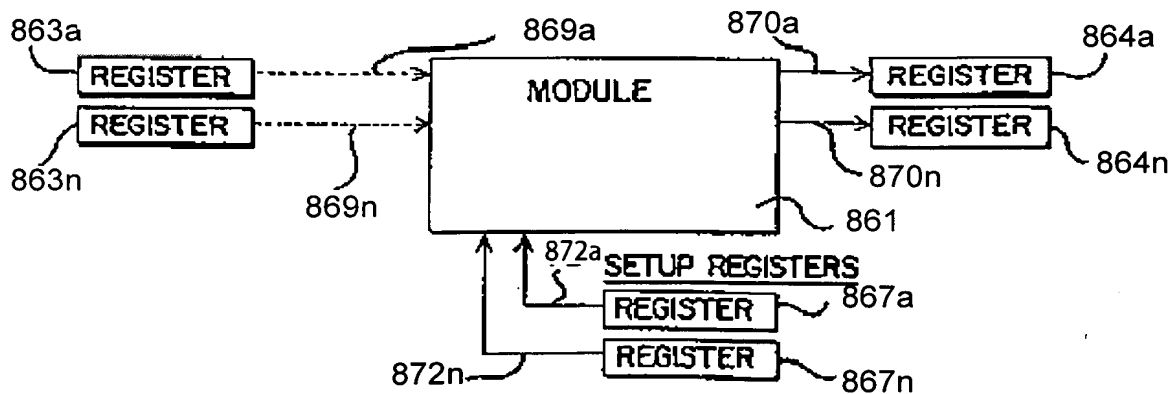


FIG. 19A

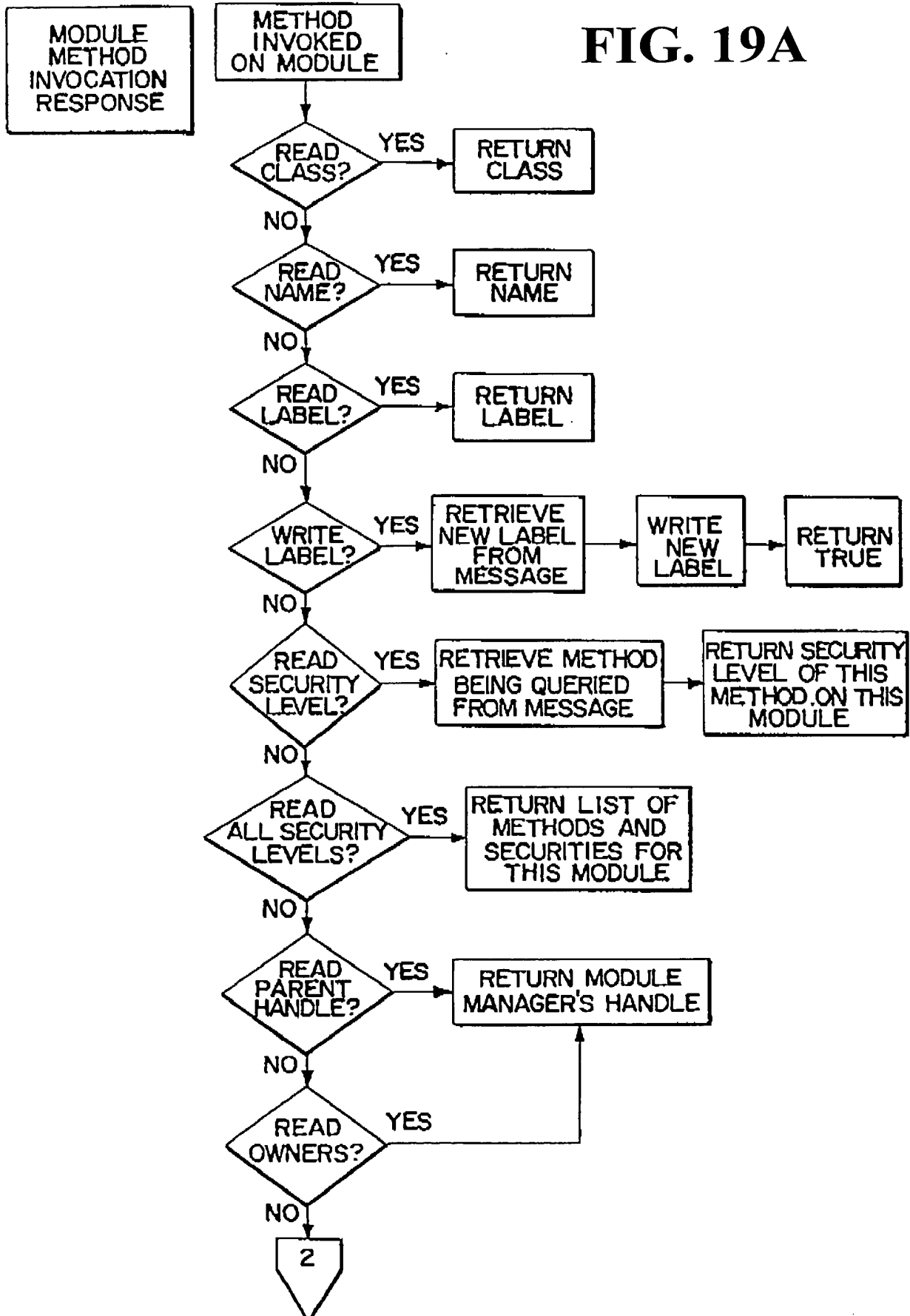


FIG. 19B

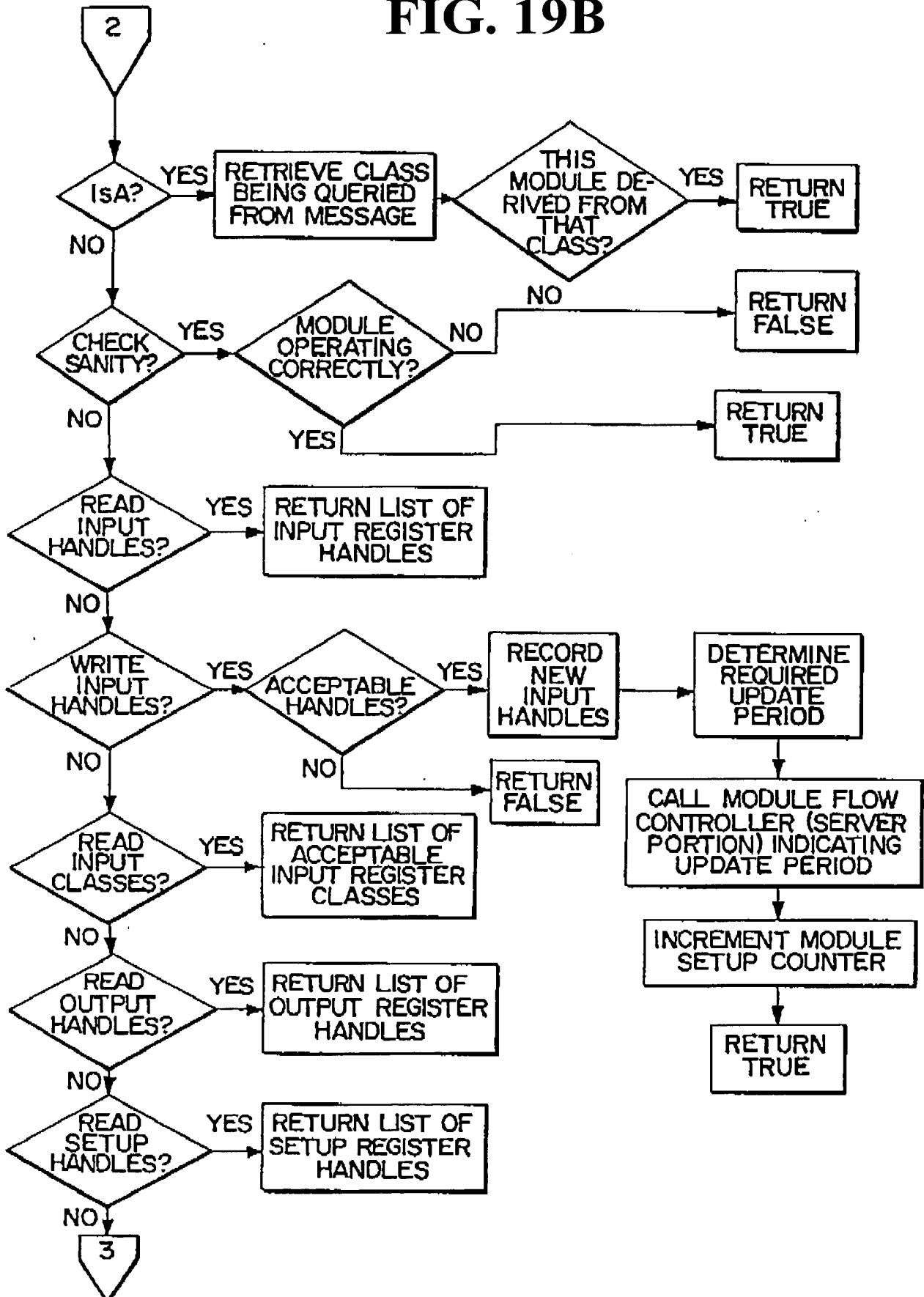


FIG. 19C

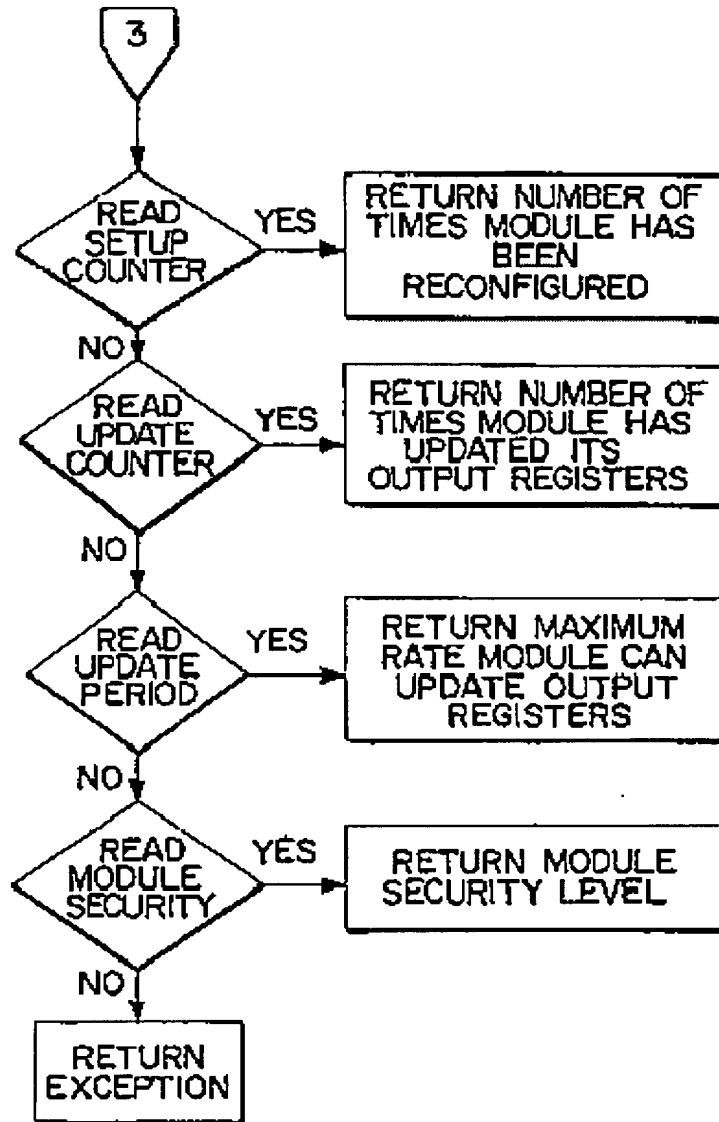


FIG. 20

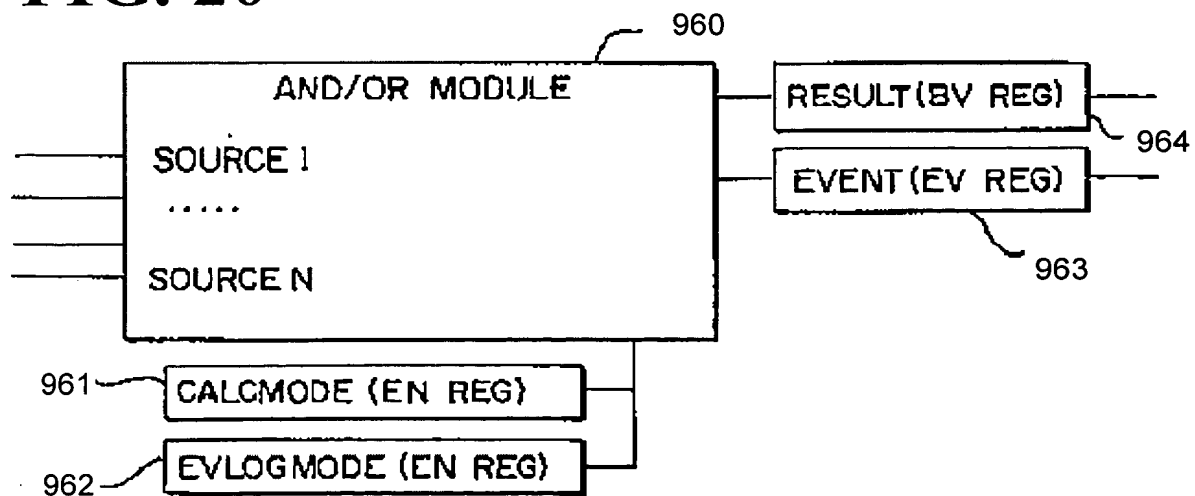


FIG. 20A

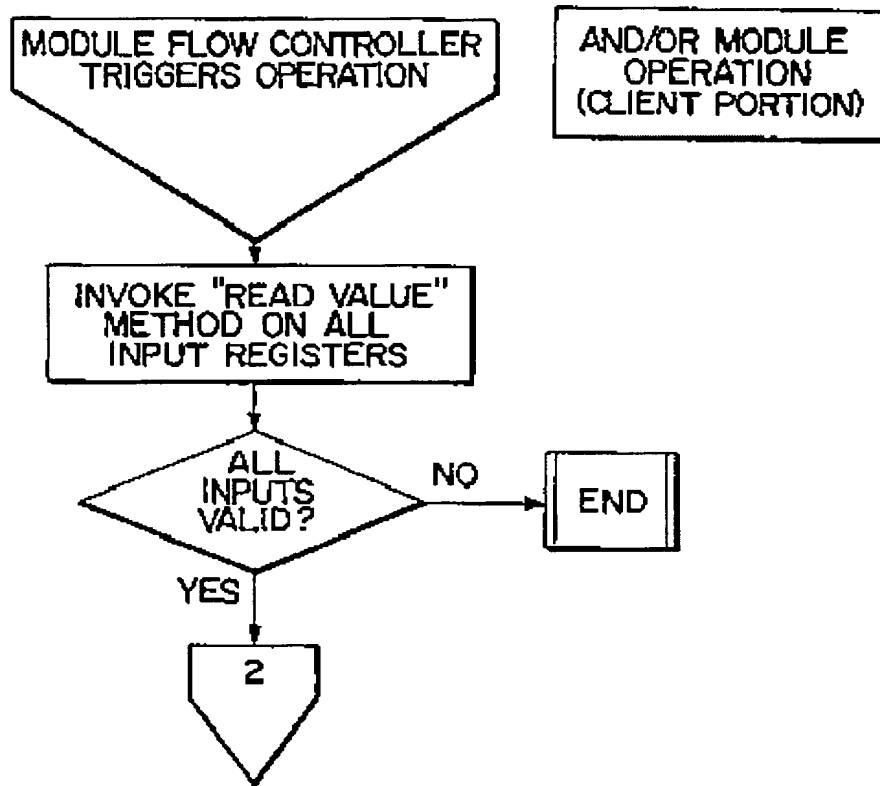


FIG. 21

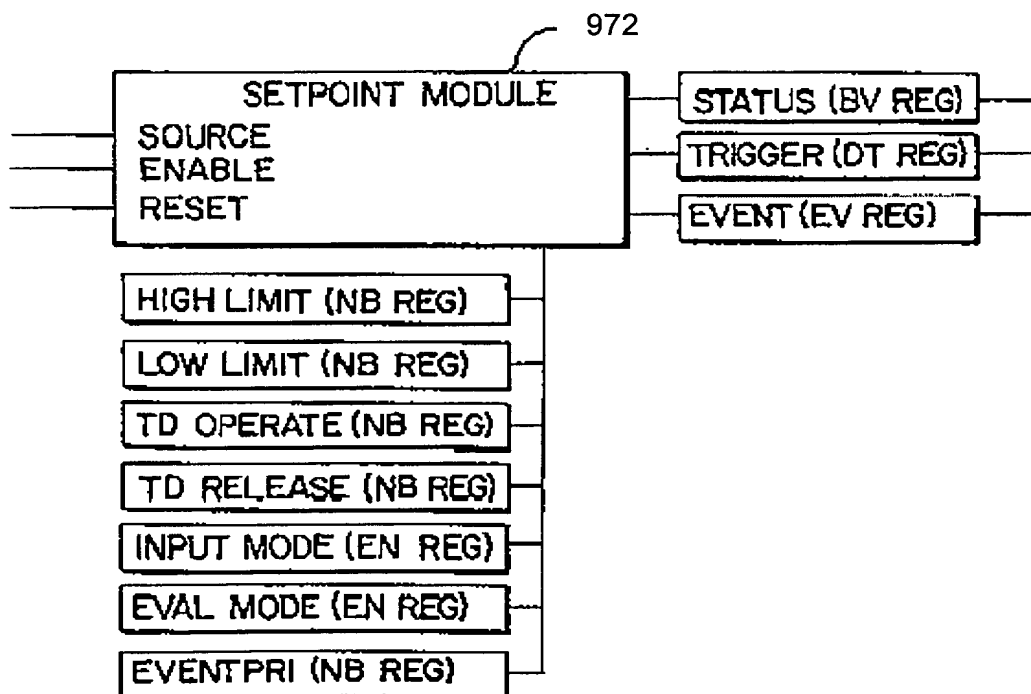


FIG. 20B

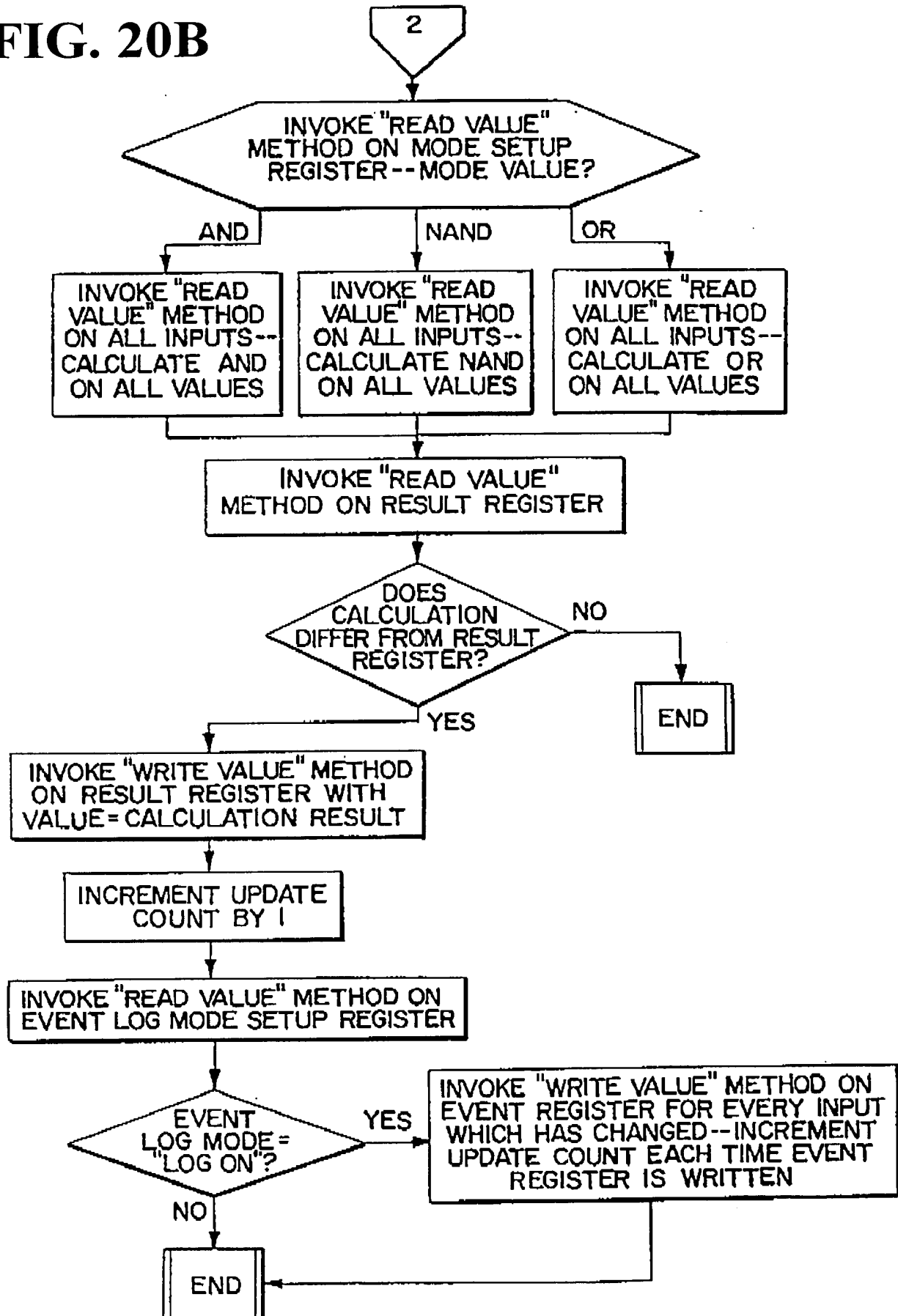


FIG. 21A

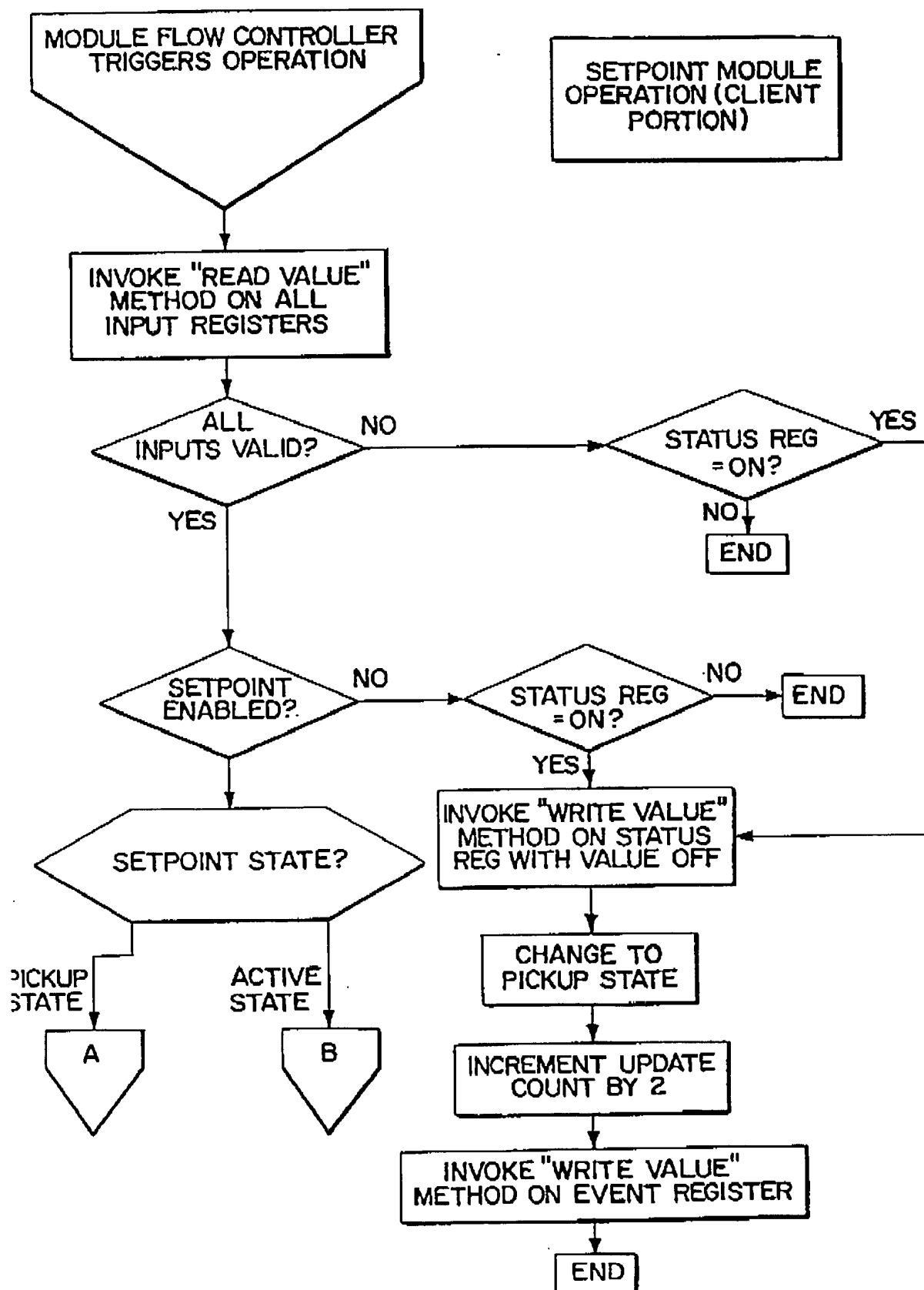


FIG. 21B

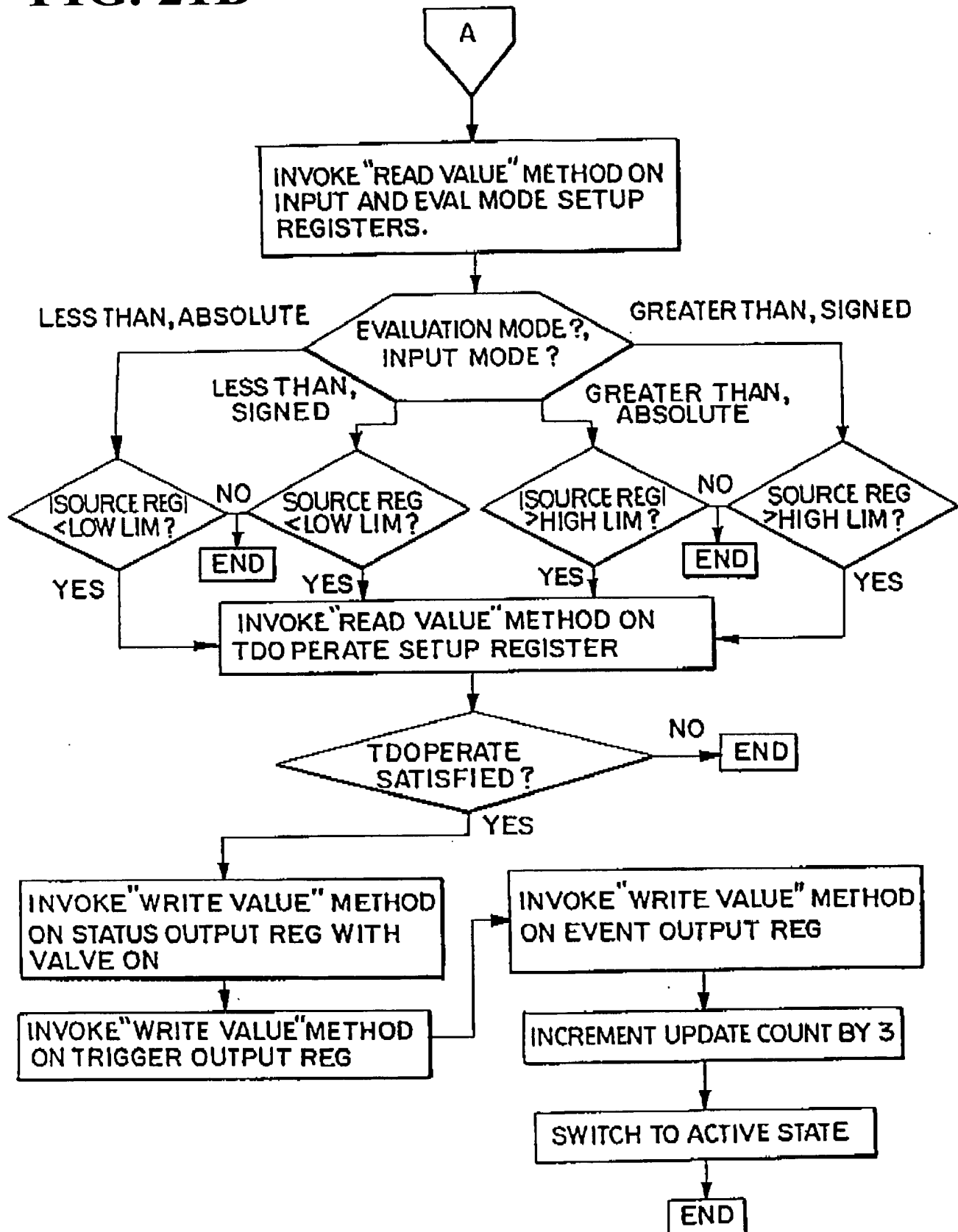


FIG. 21C

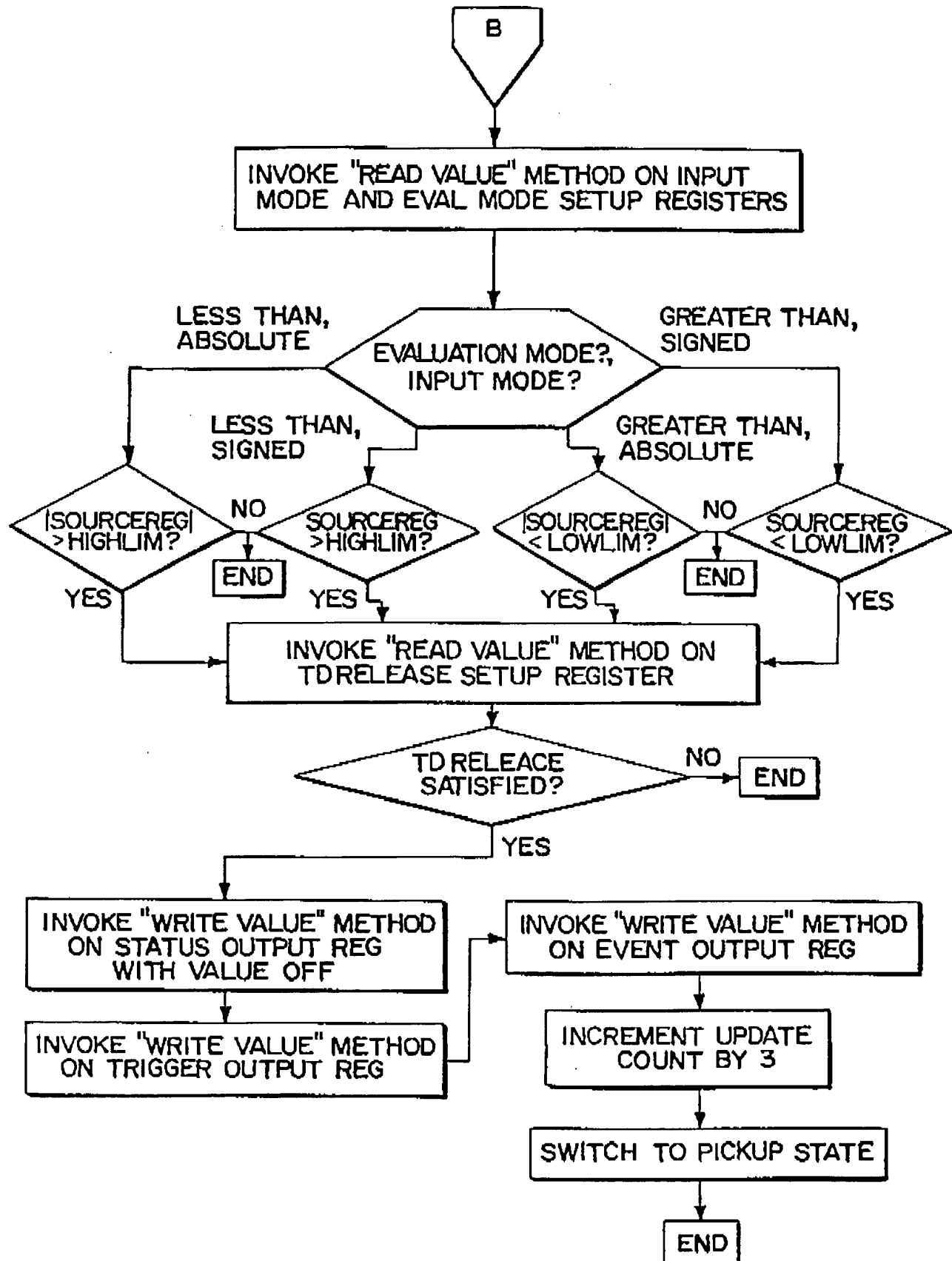


FIG. 22A

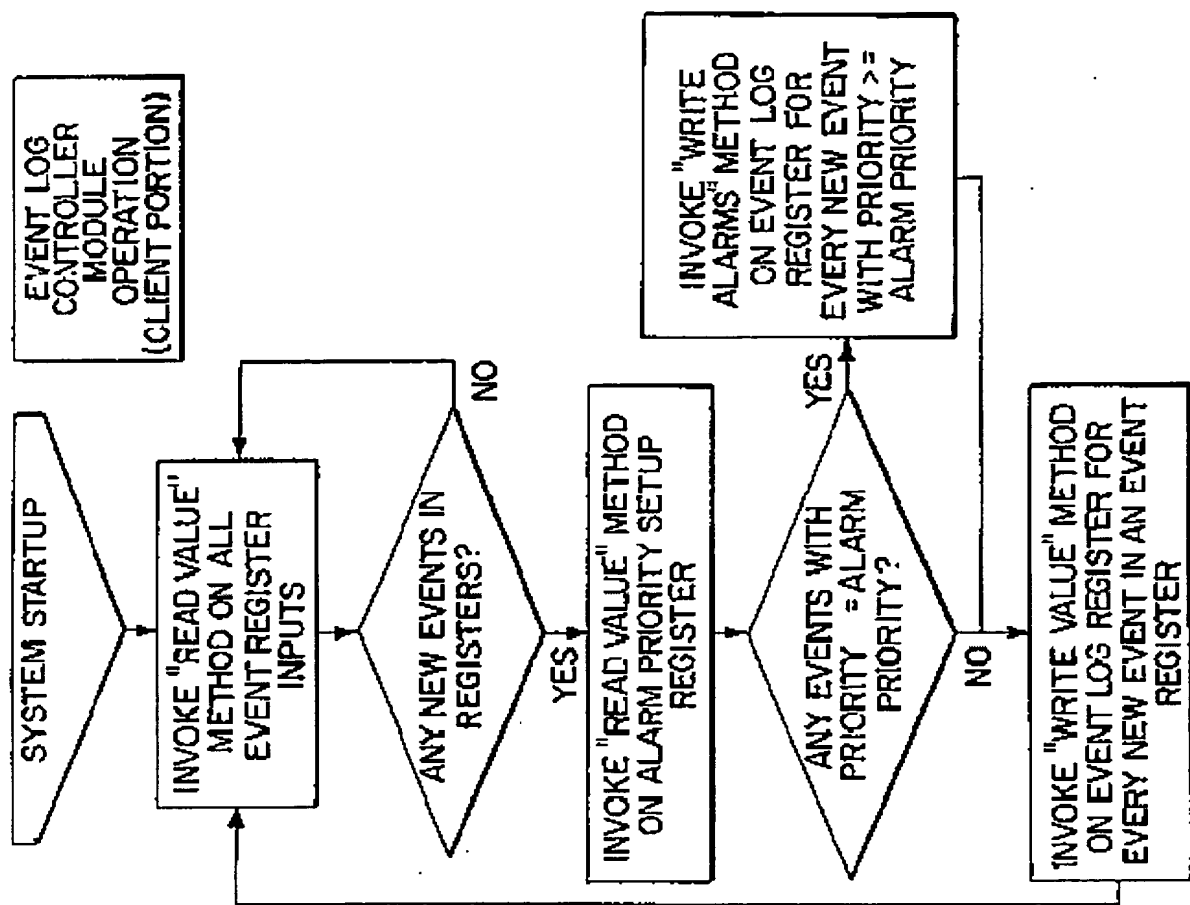


FIG. 22

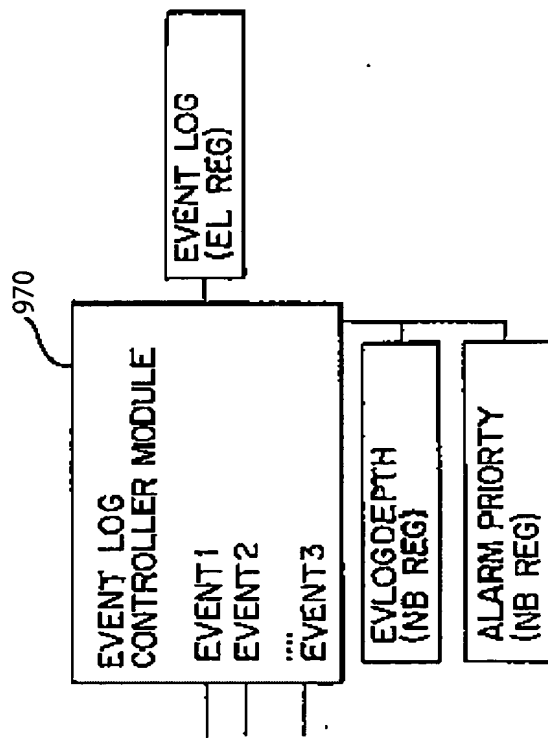


FIG. 24A

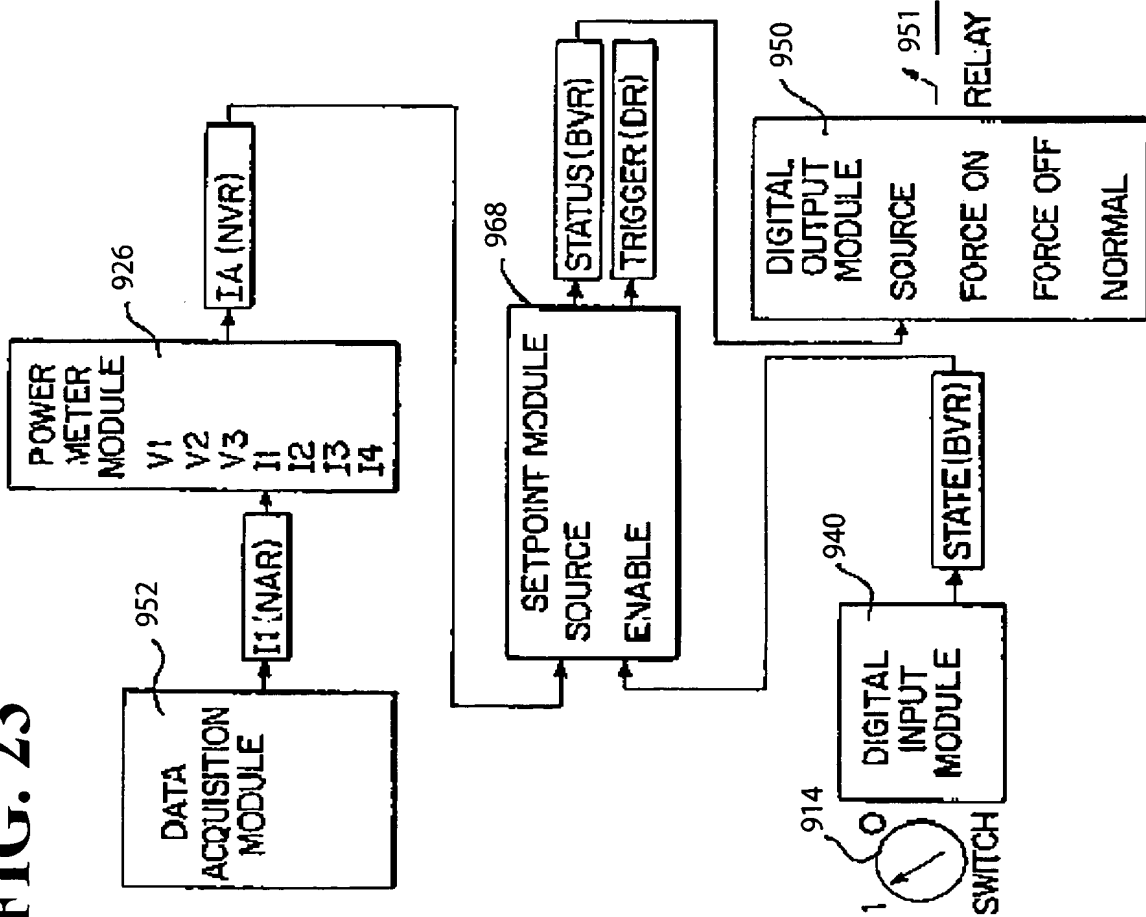


FIG. 25

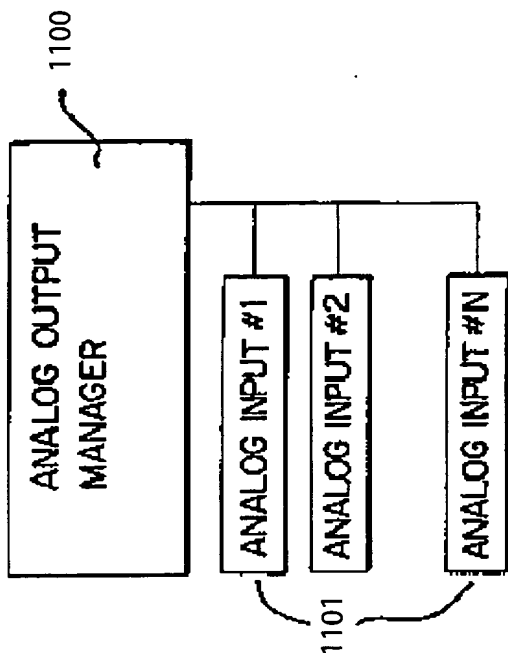


FIG. 24B

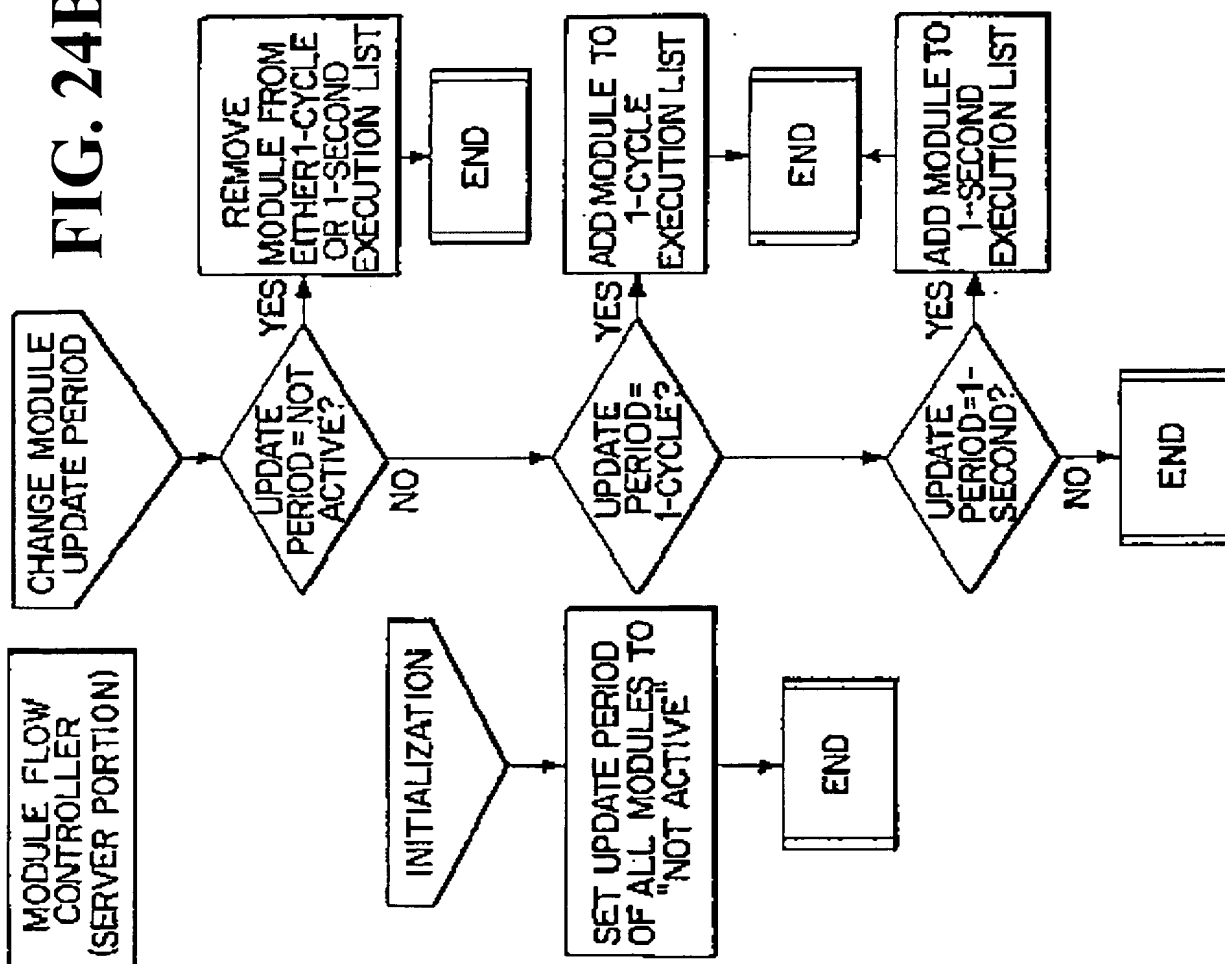


FIG. 25A

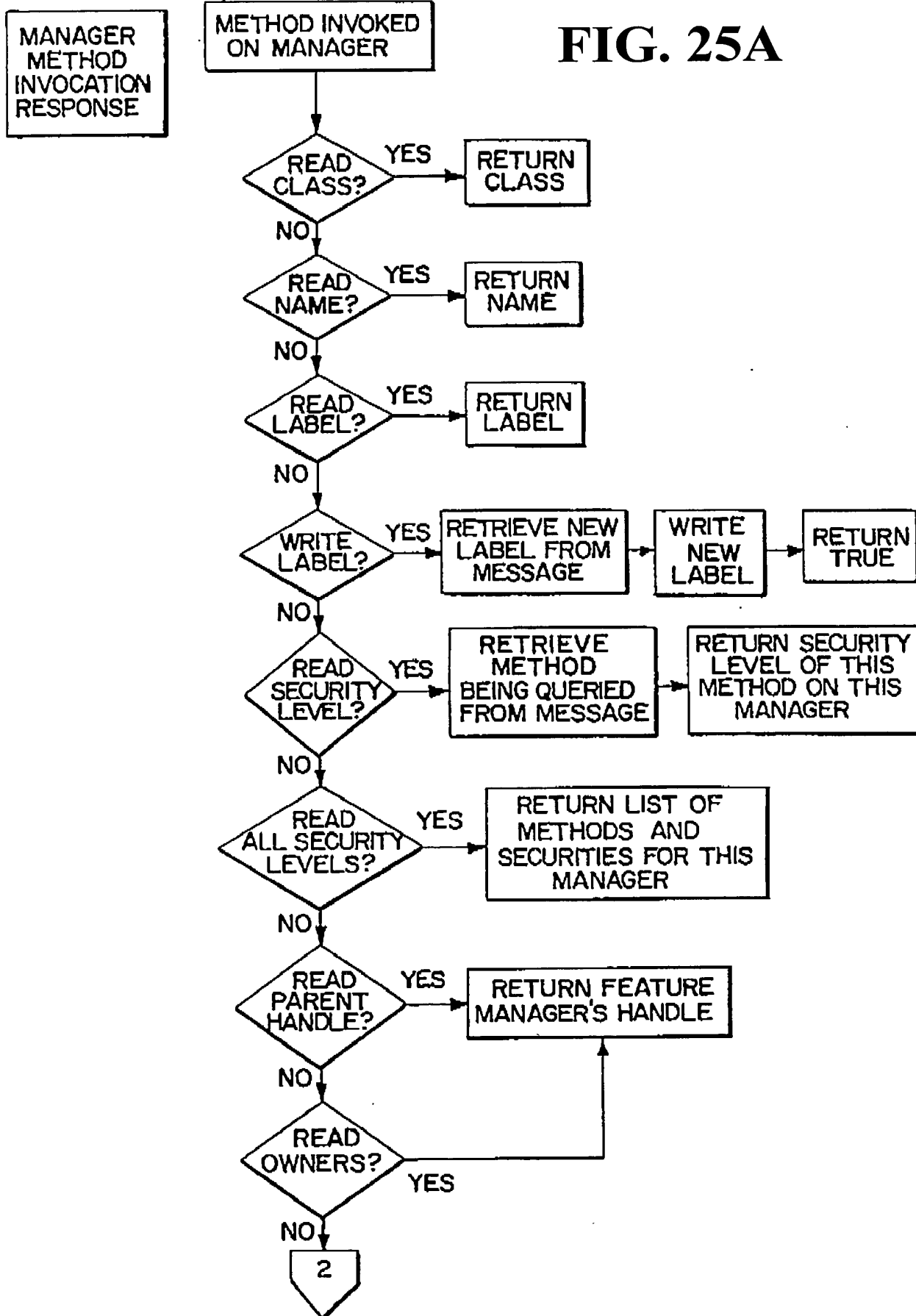


FIG. 25B

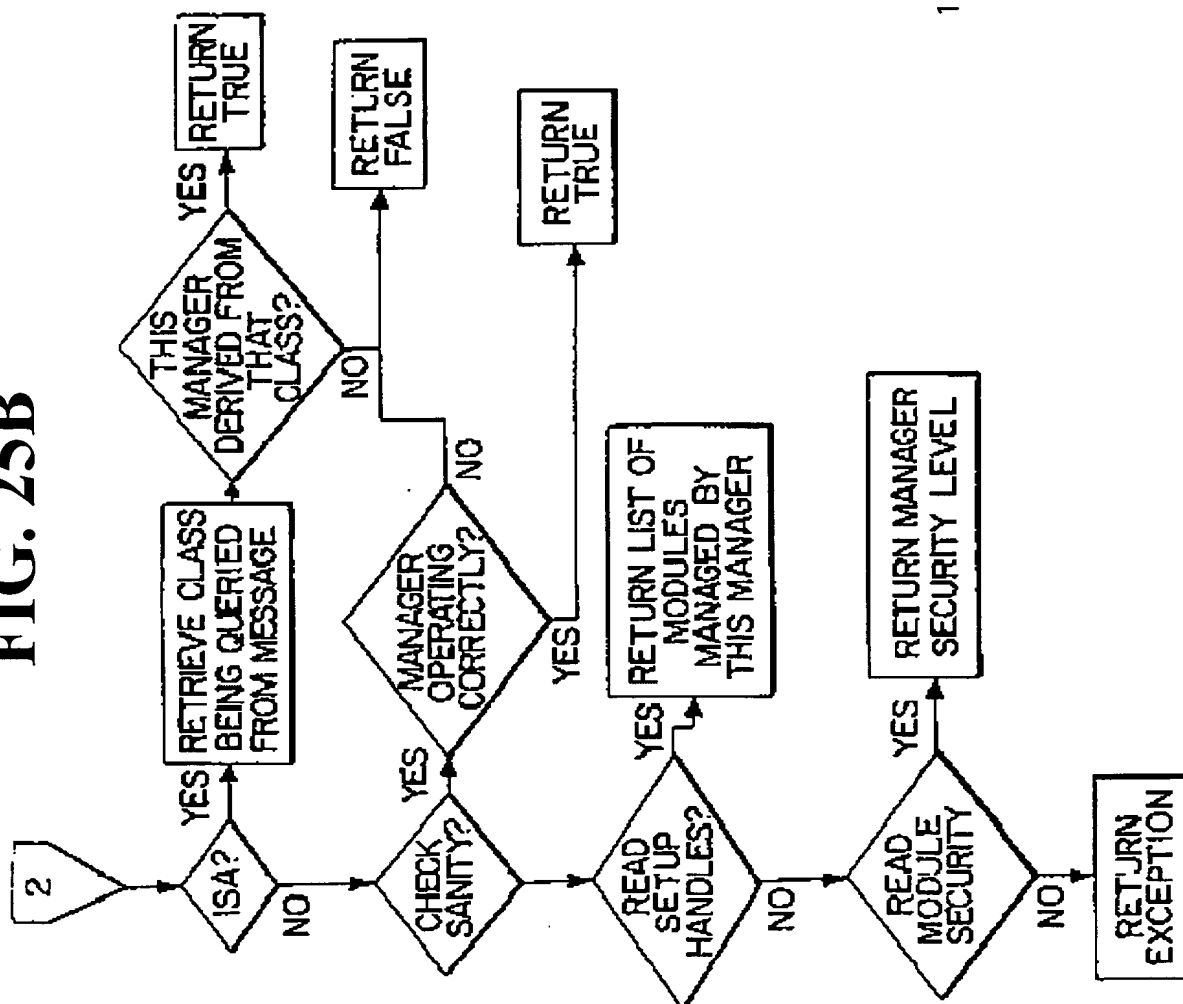
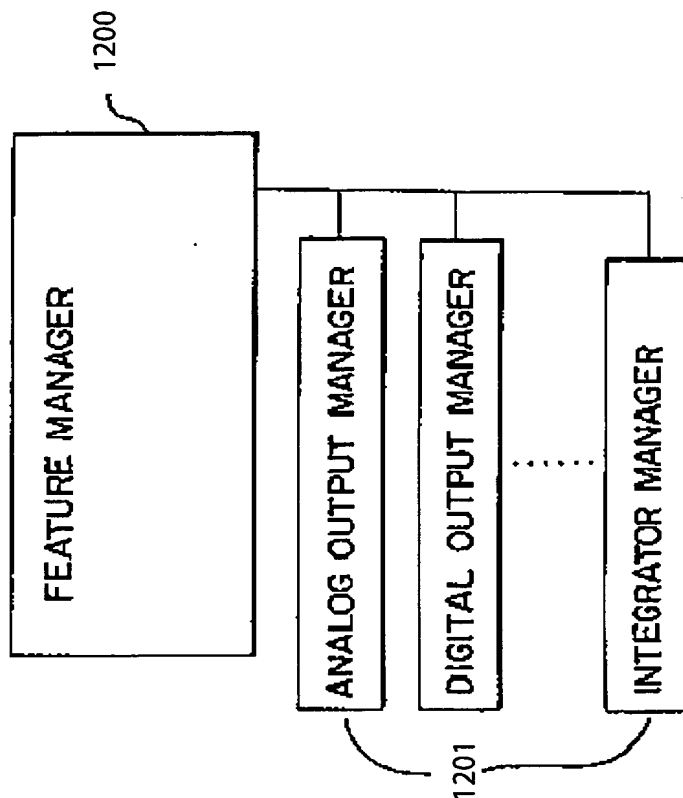


FIG. 26



FEATURE
MANAGER
METHOD
INVOCATION
RESPONSE

FIG. 26A

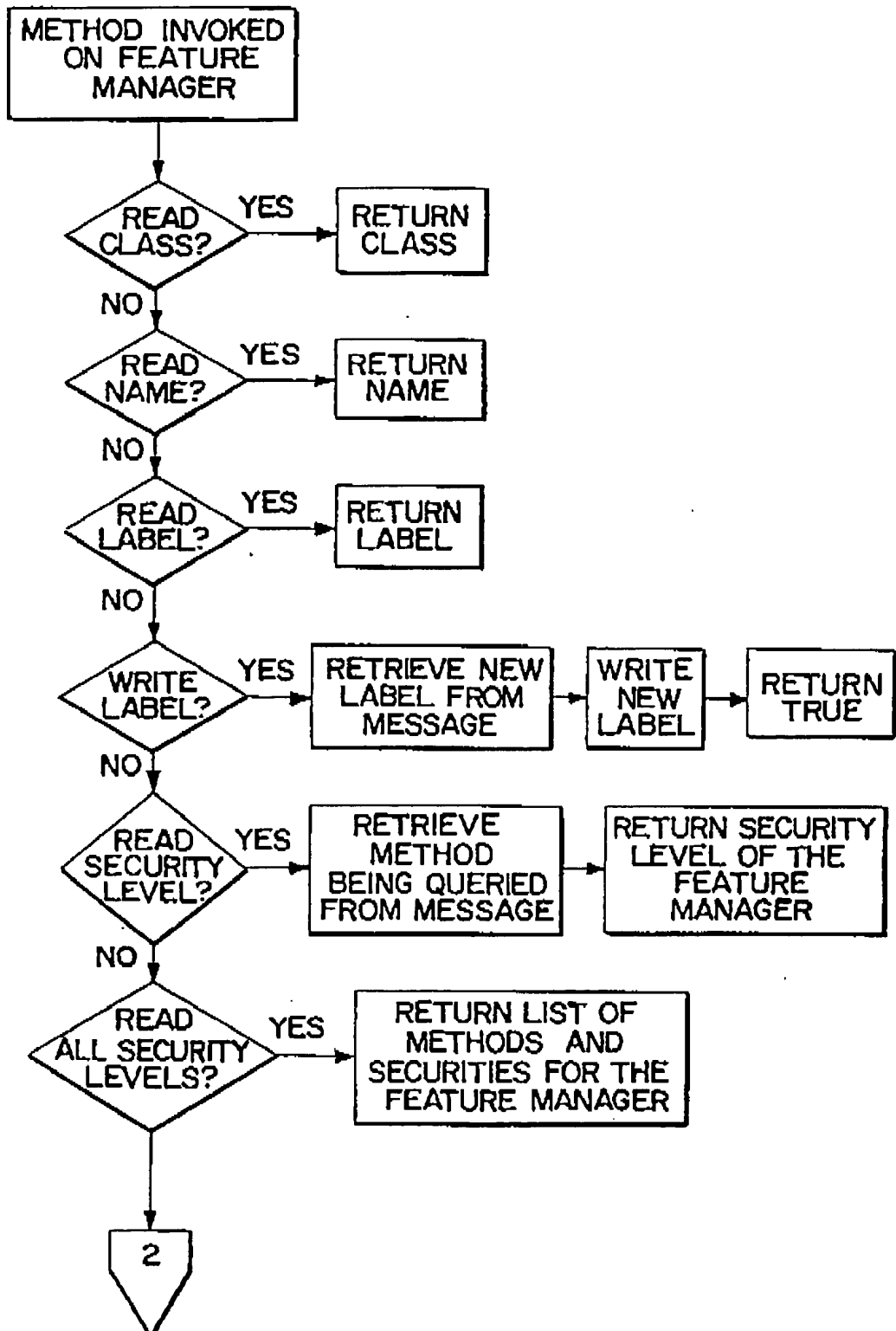
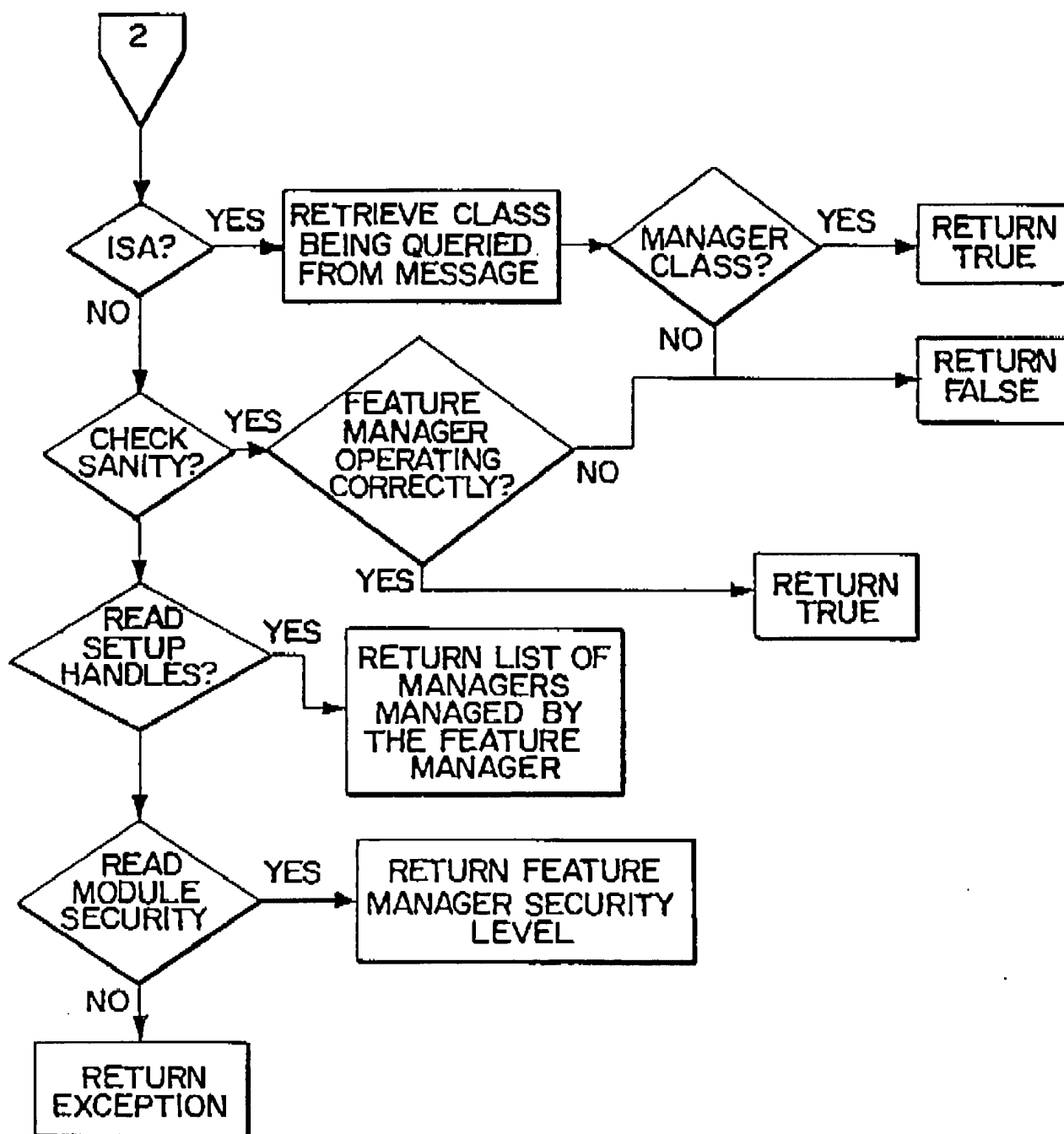


FIG. 26B



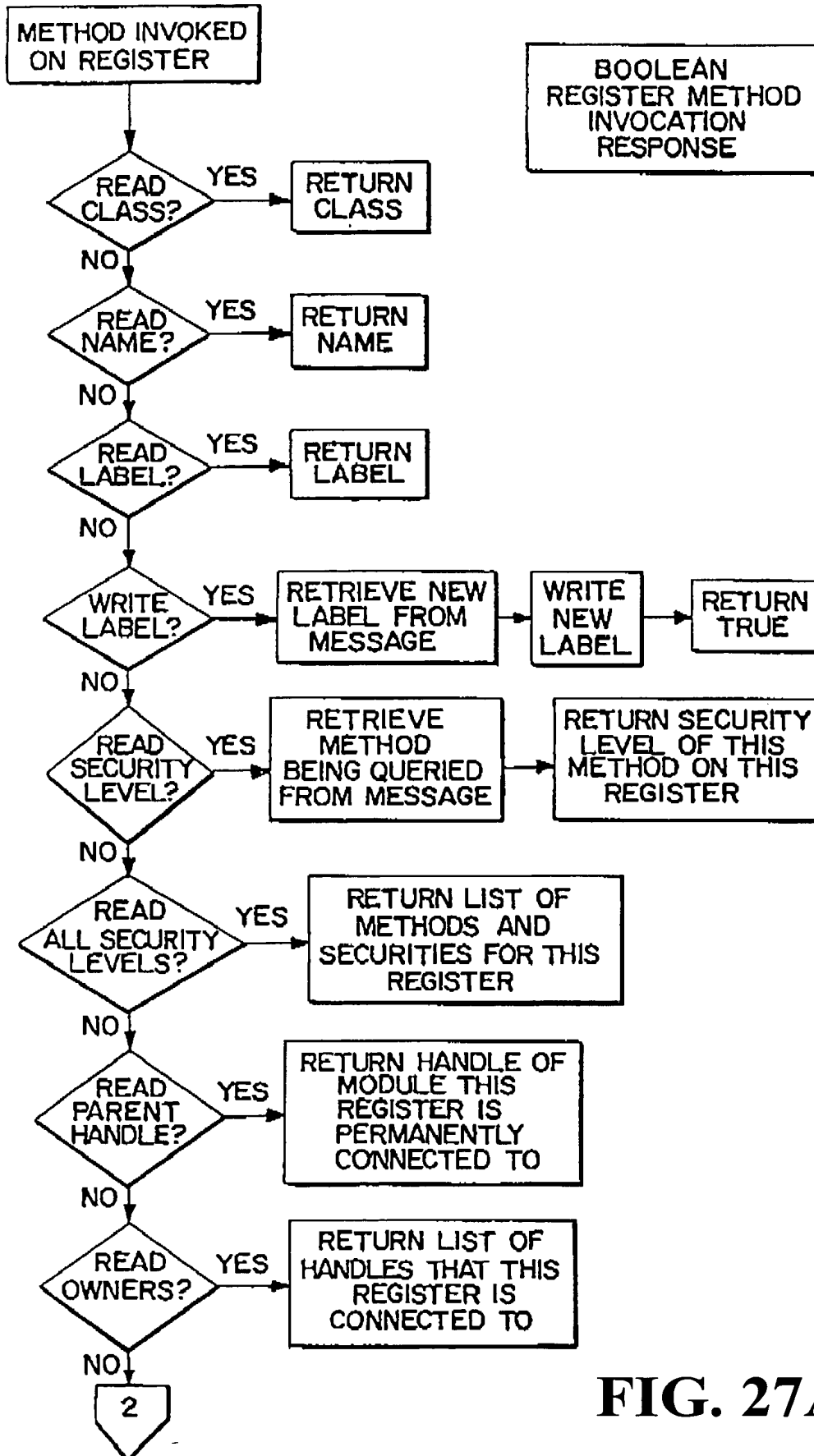


FIG. 27A

FIG. 27B

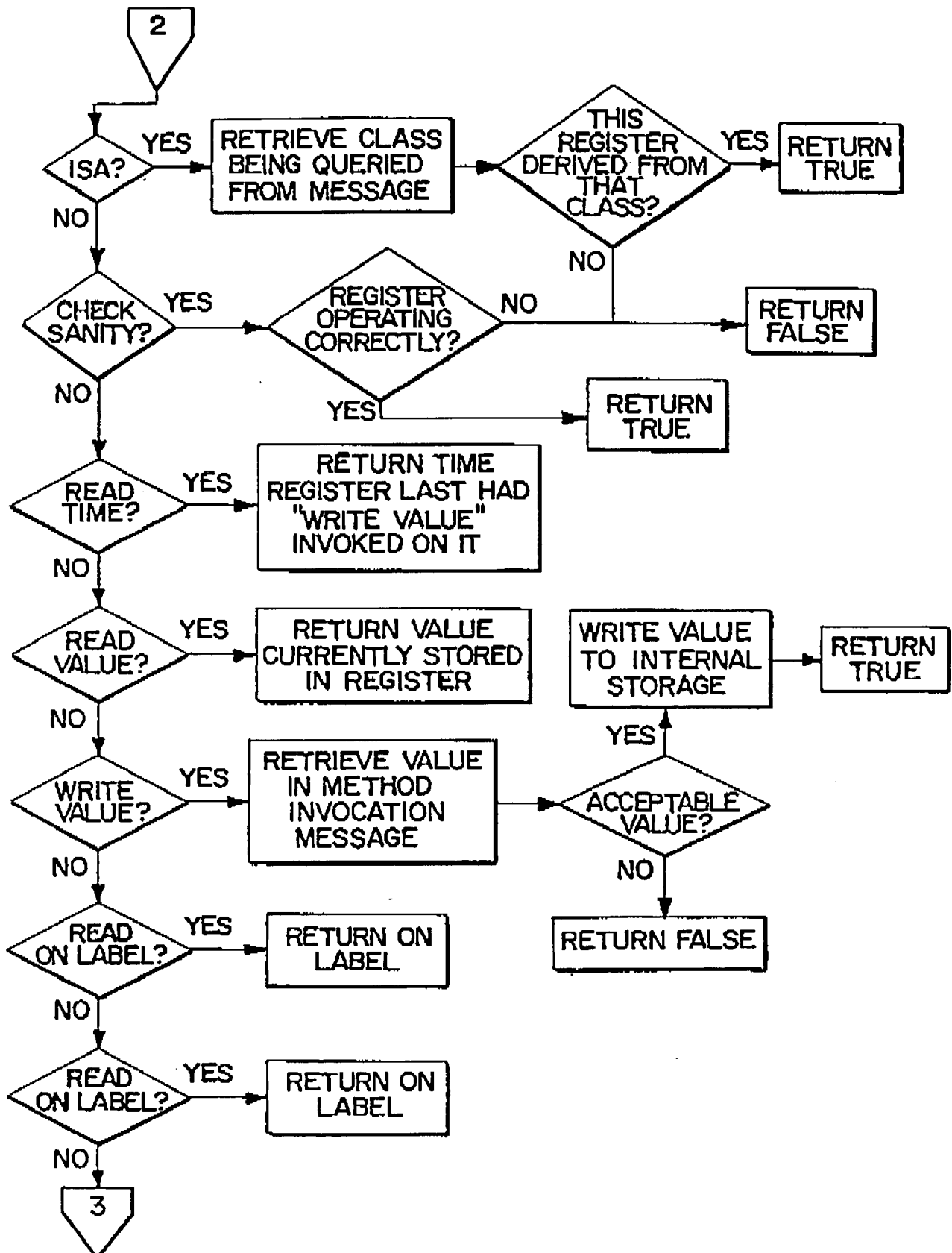


FIG. 27C

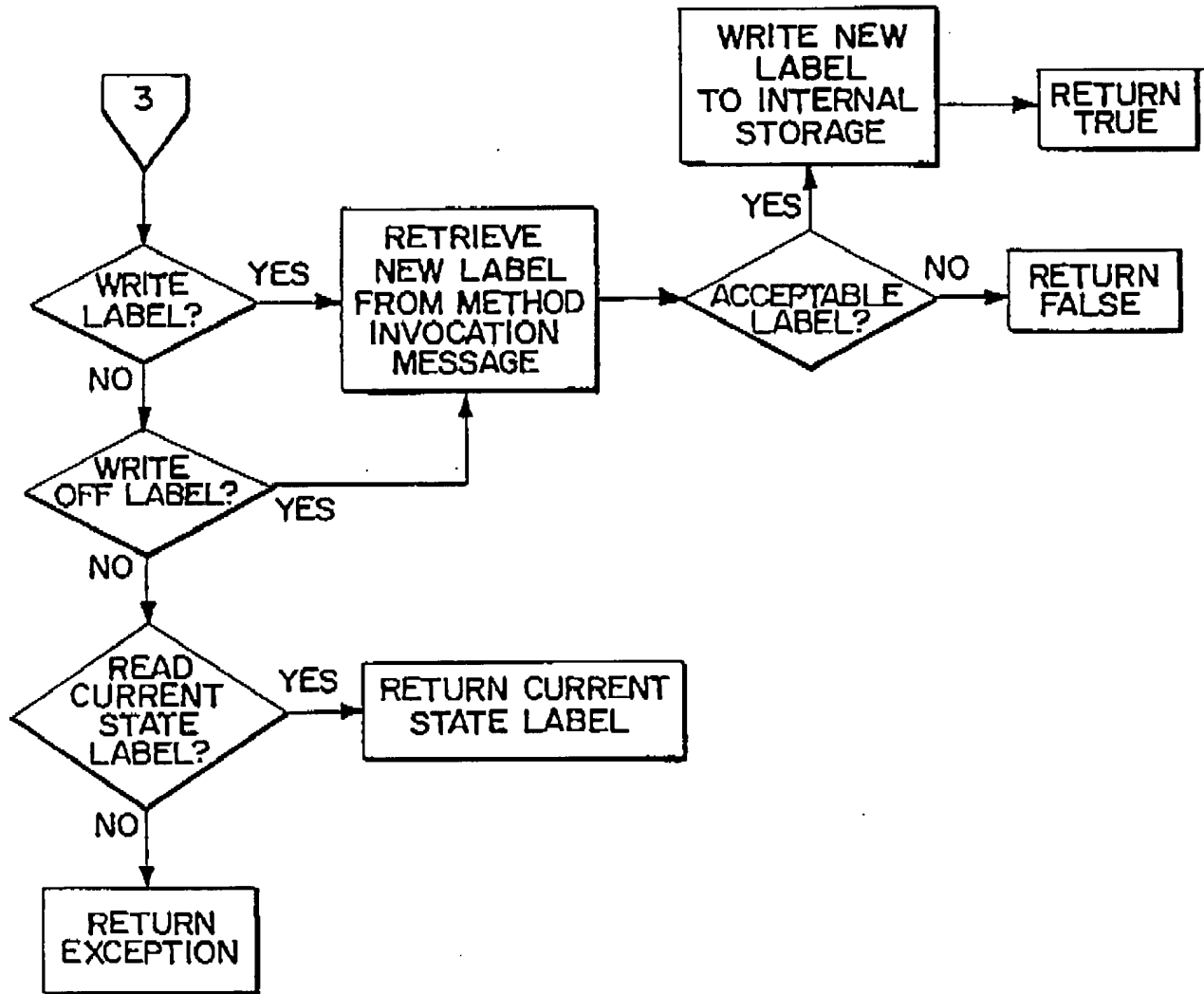


FIG. 28A

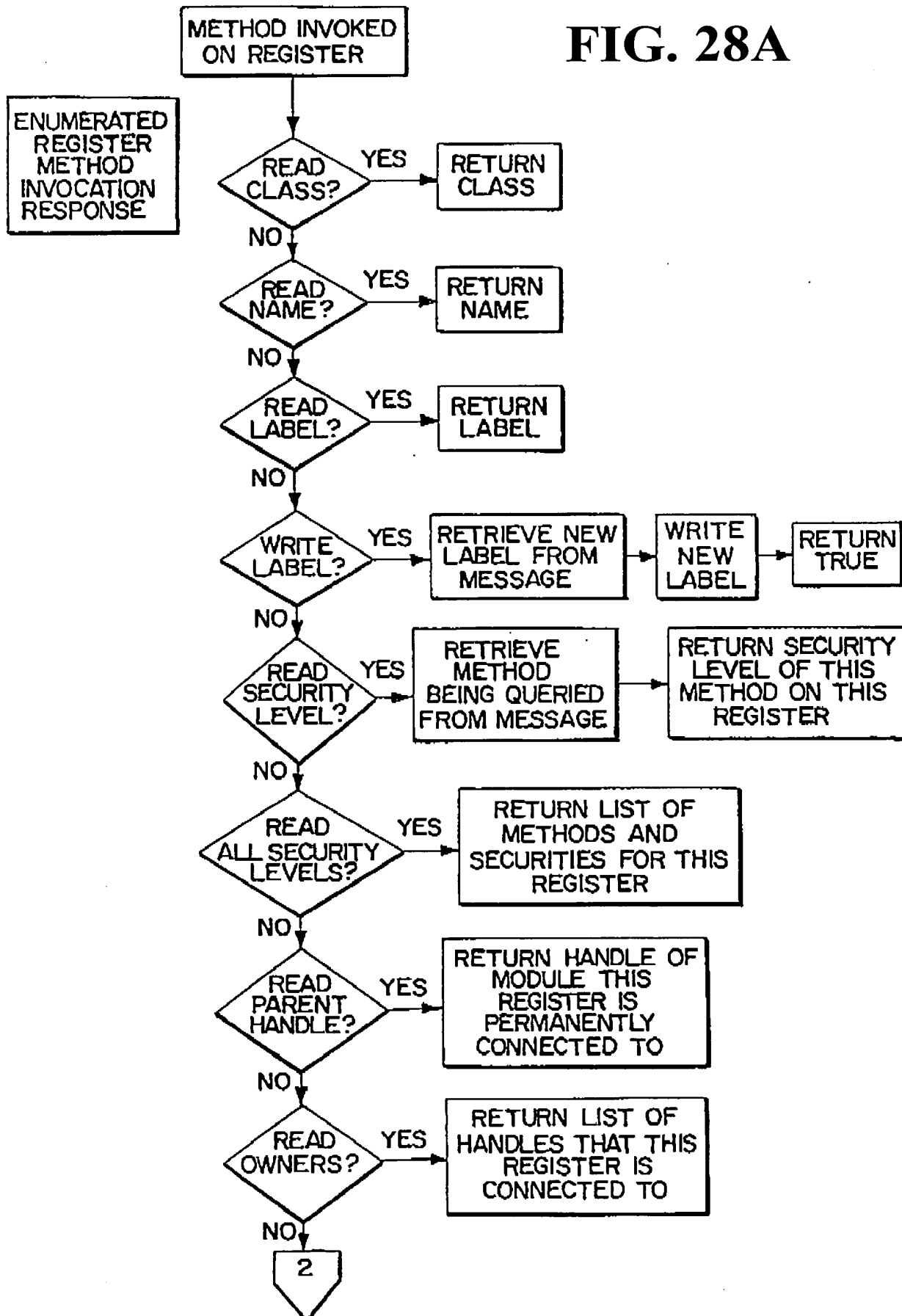


FIG. 28B

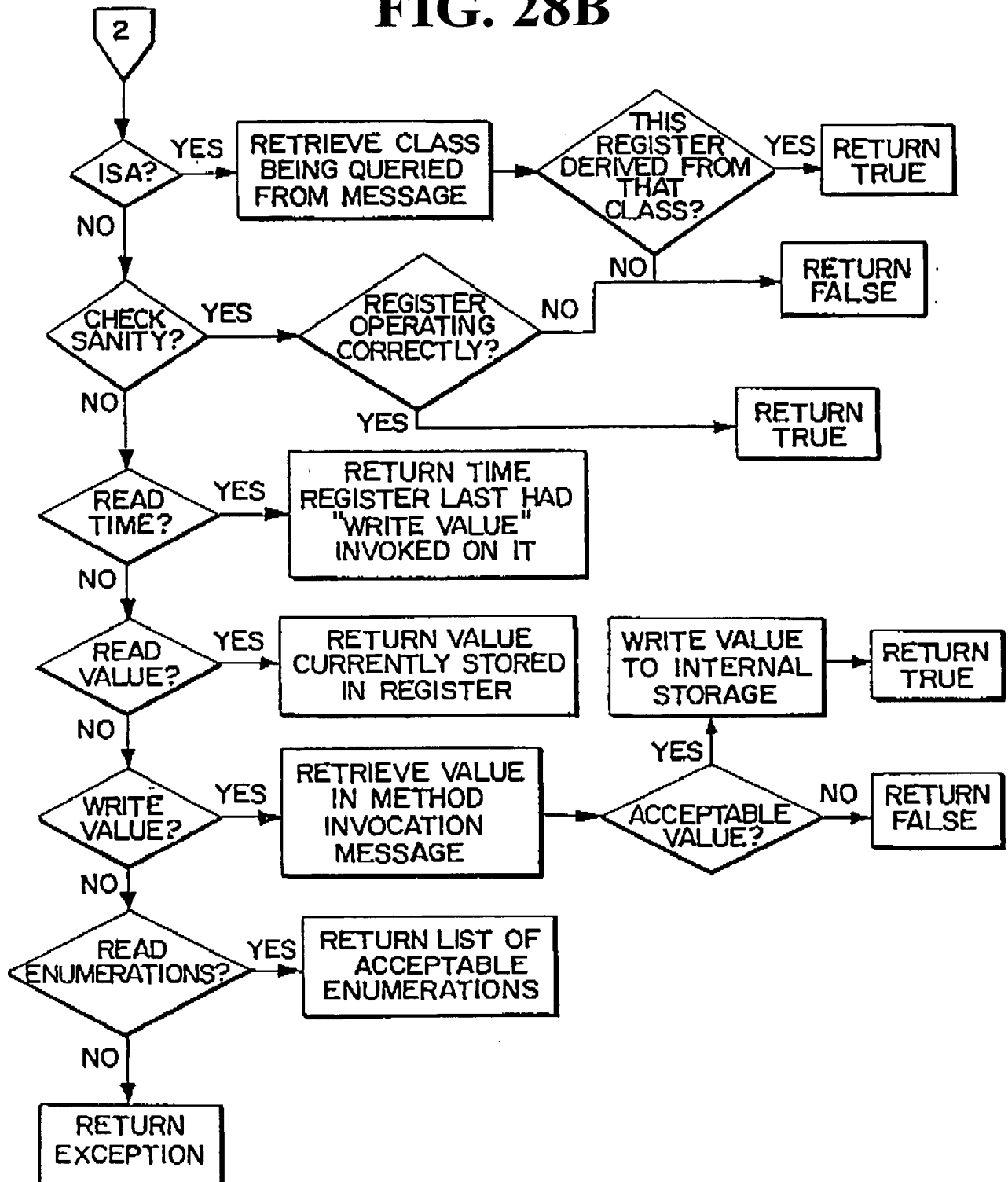


FIG. 29A

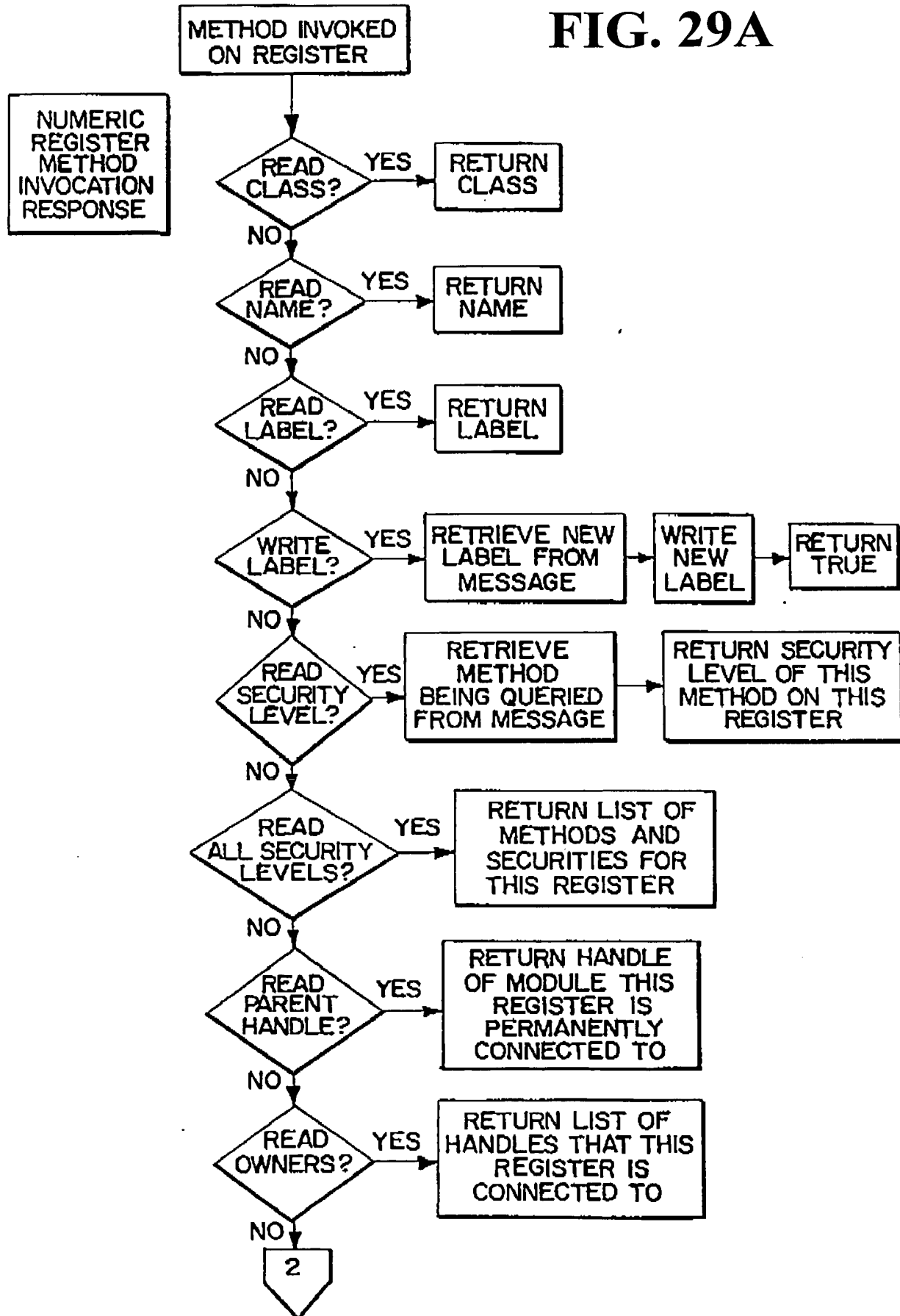


FIG. 29B

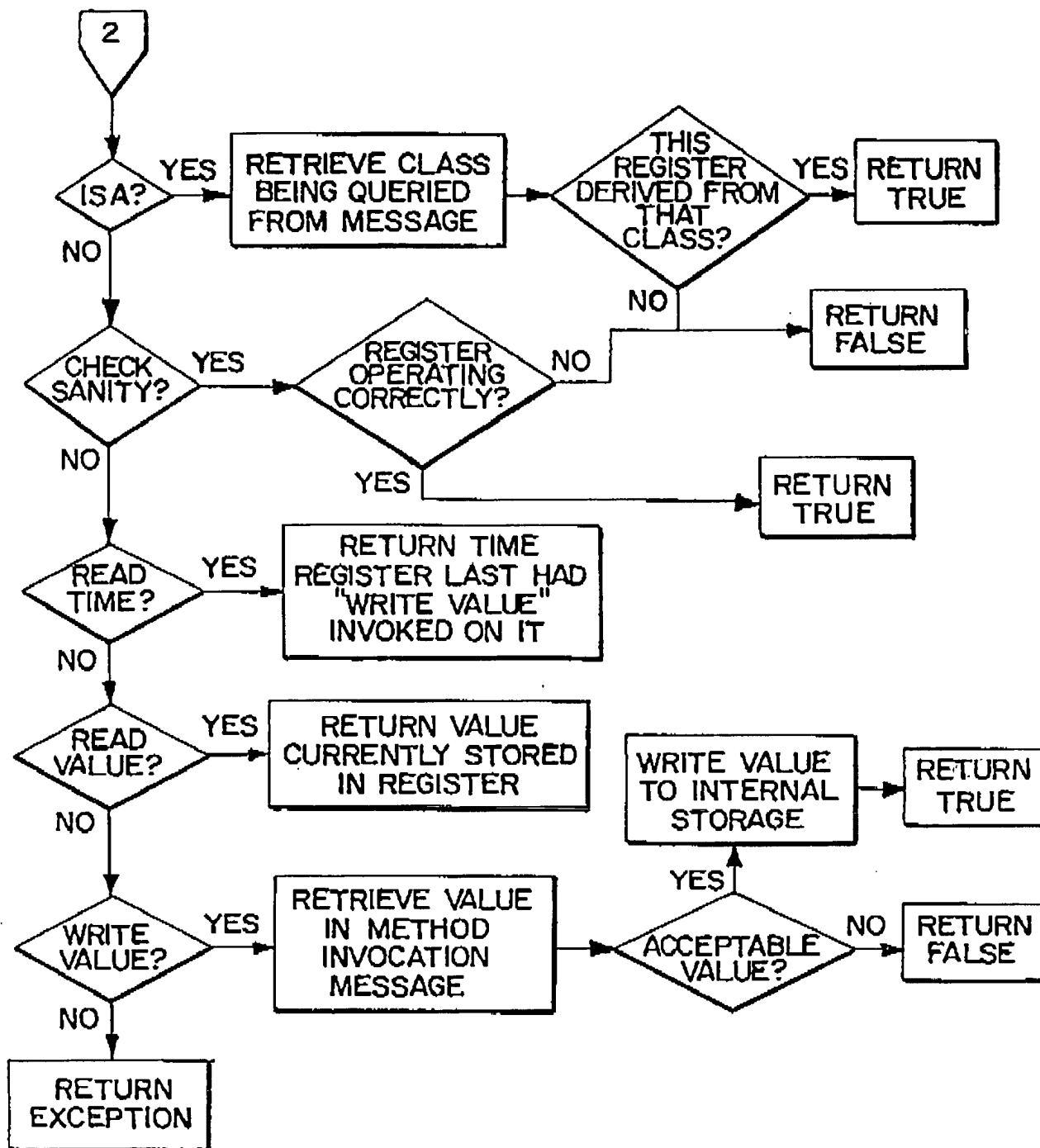


FIG. 30A

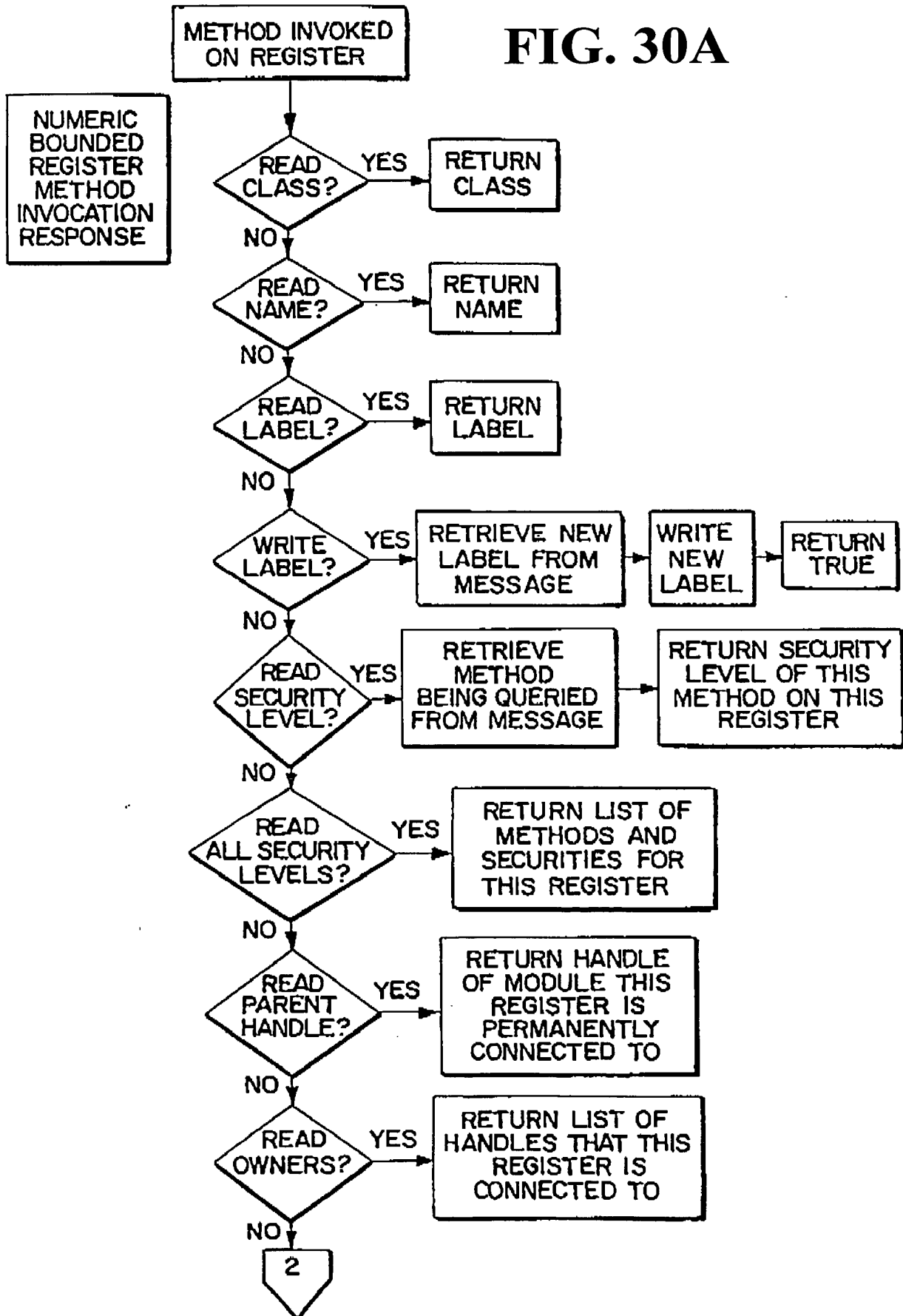
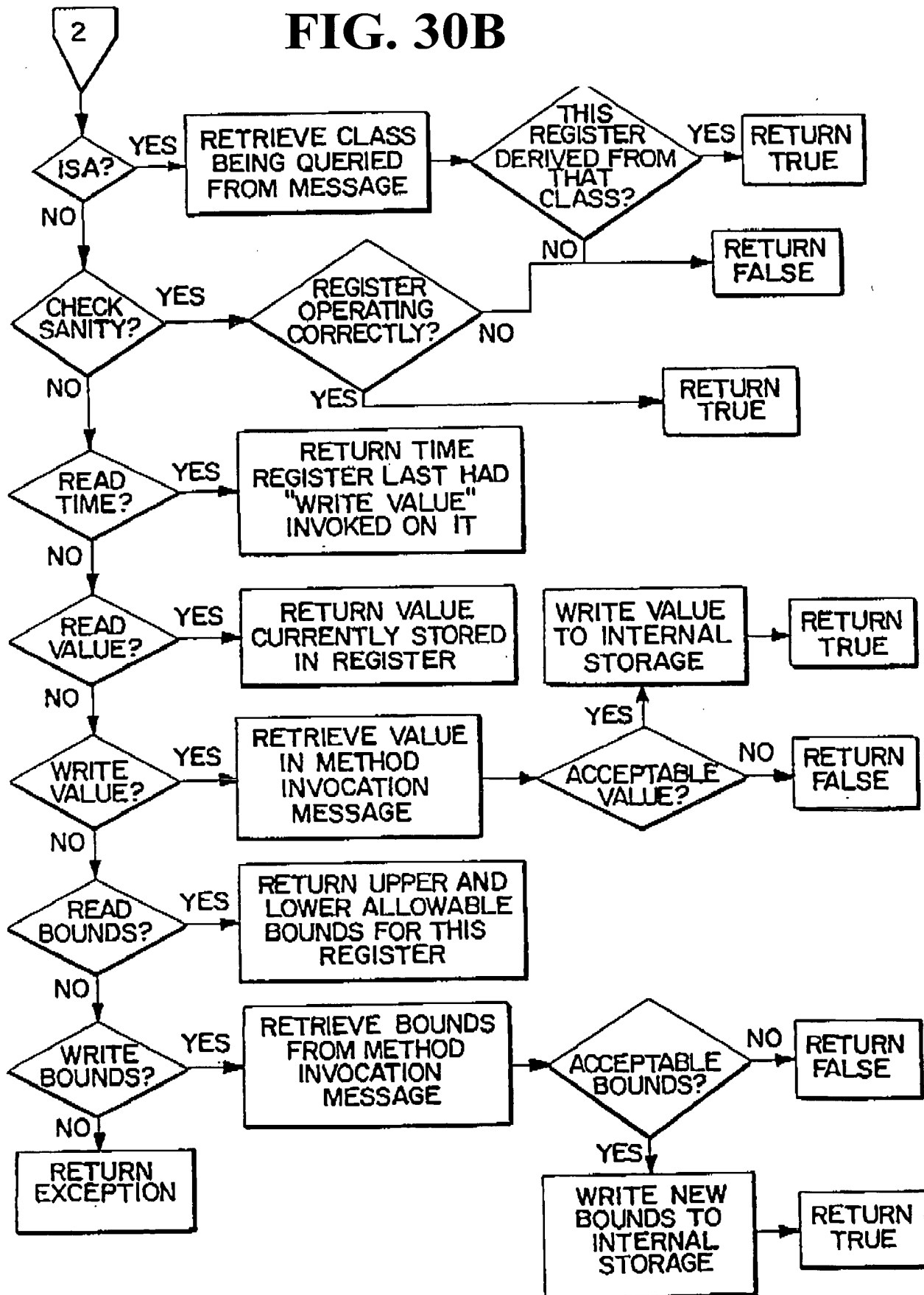
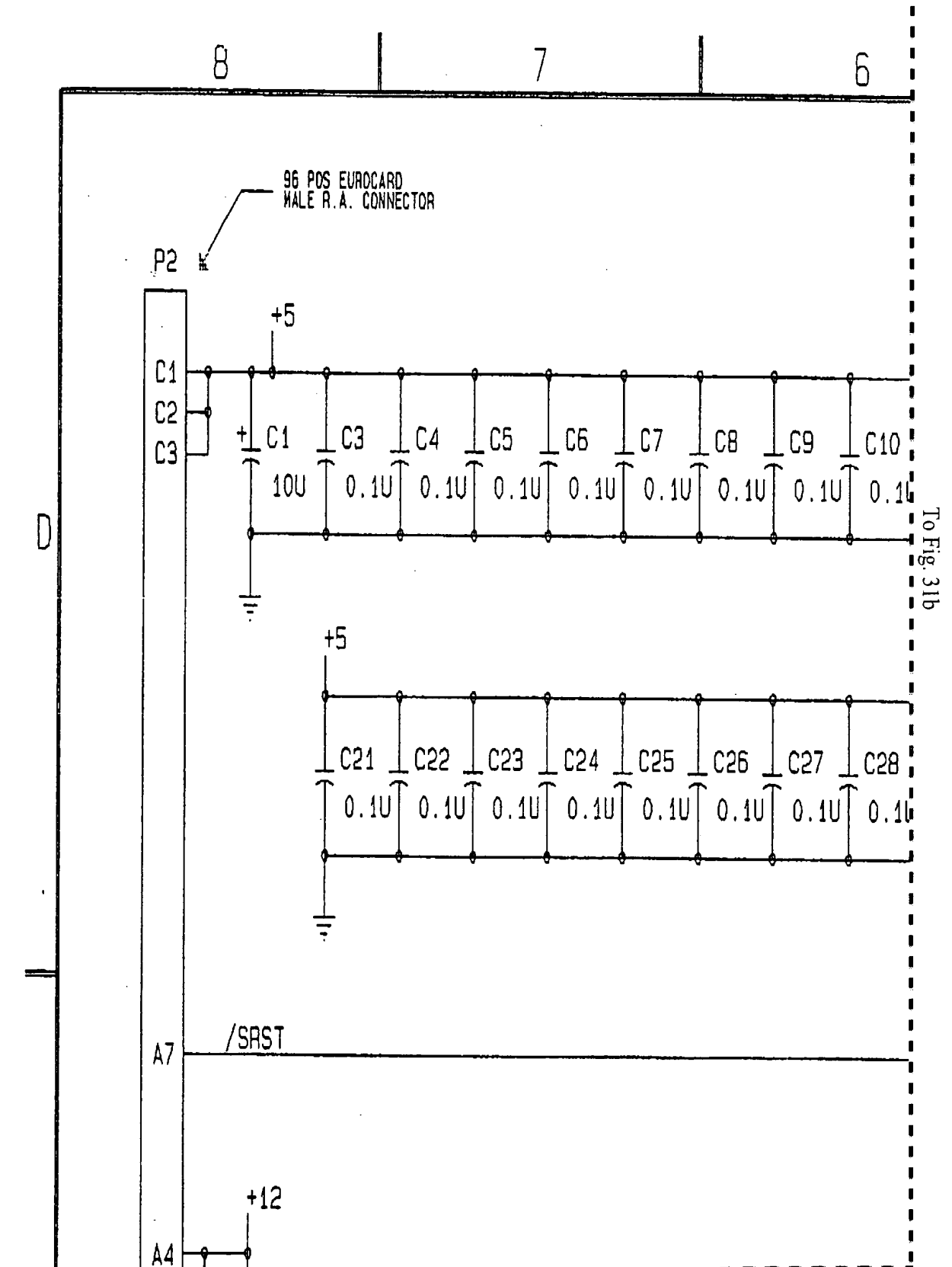


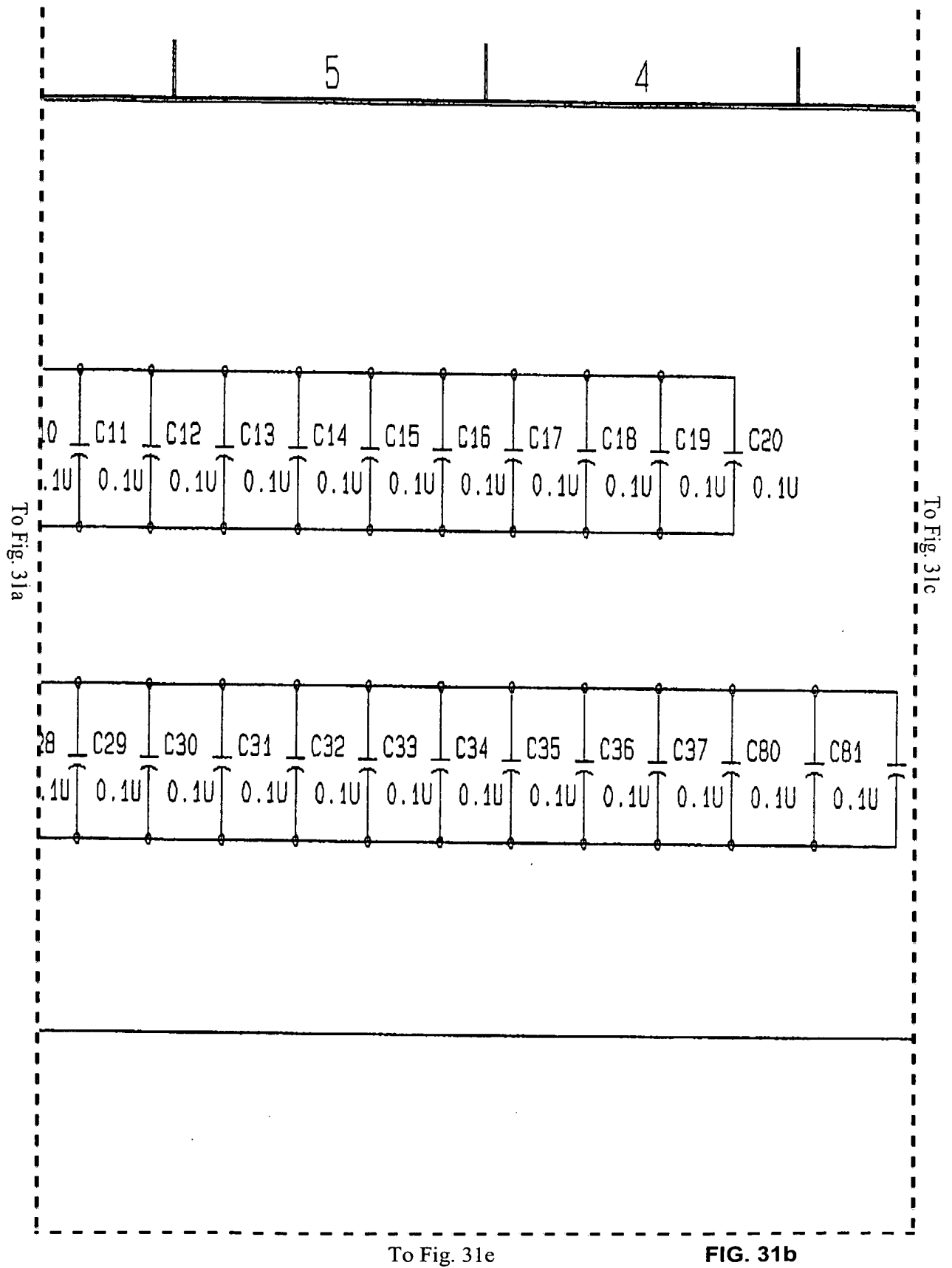
FIG. 30B

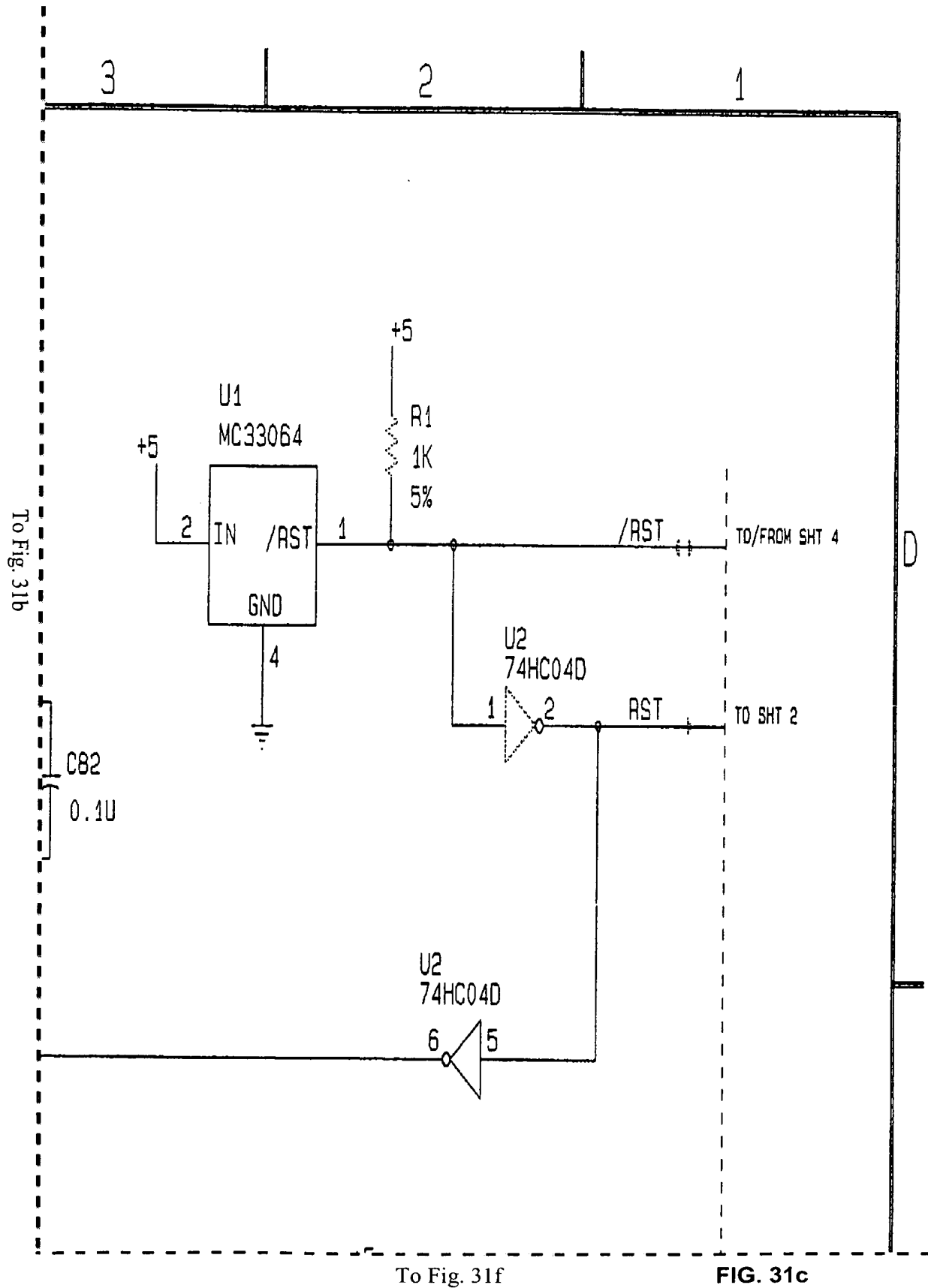




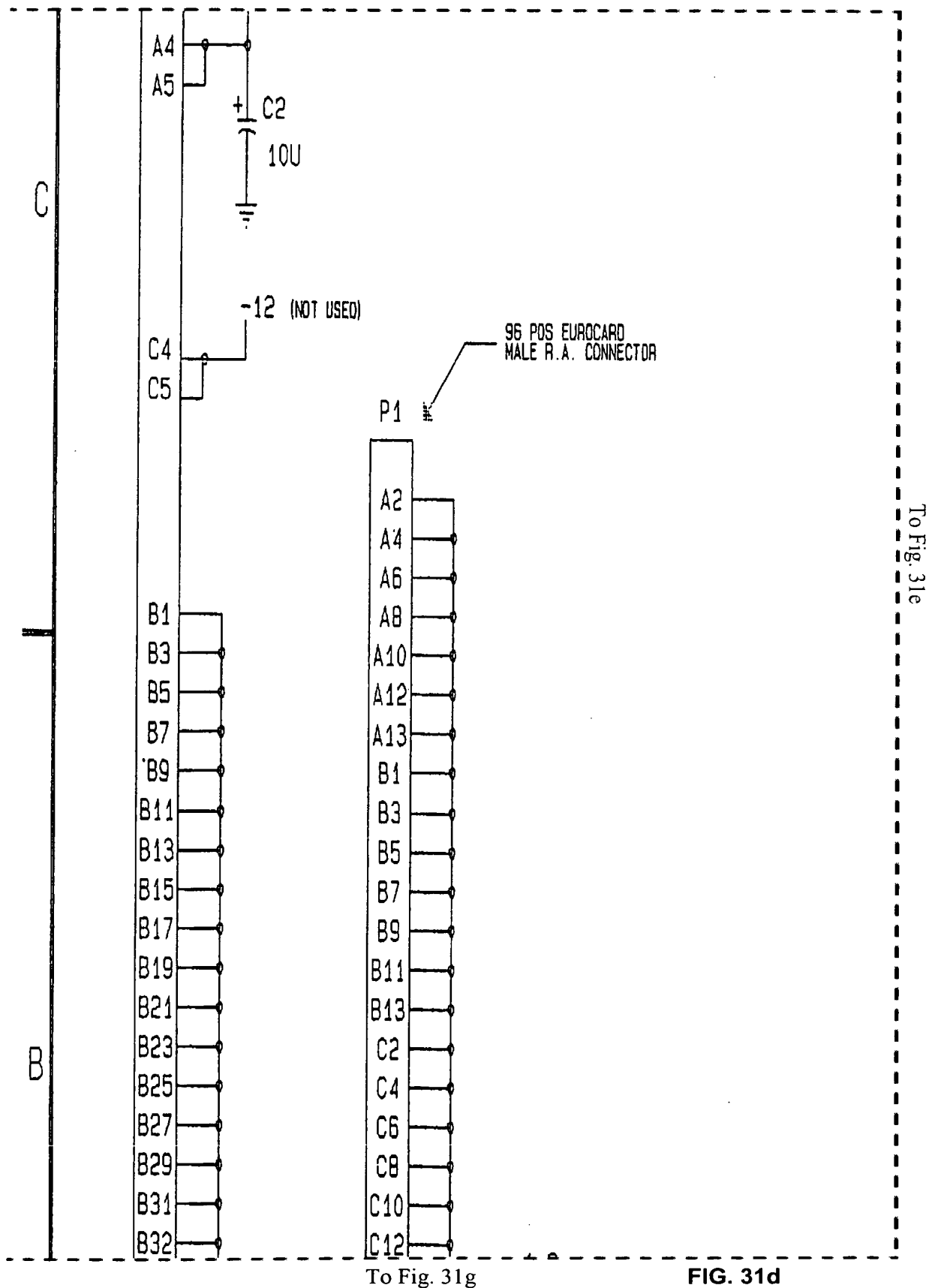
To Fig. 31d

FIG. 31a





To Fig. 31a



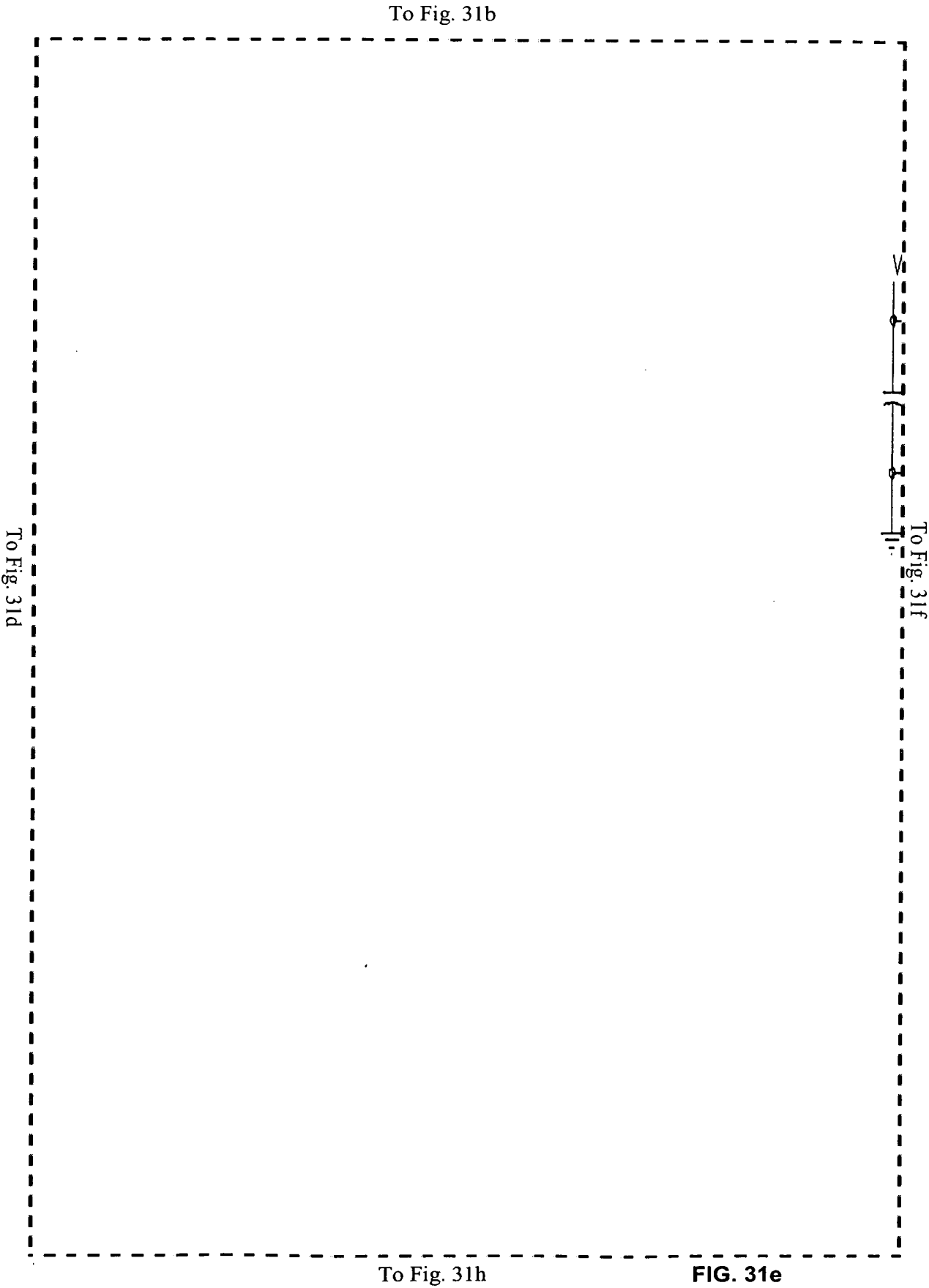


FIG. 31e

To Fig. 31c

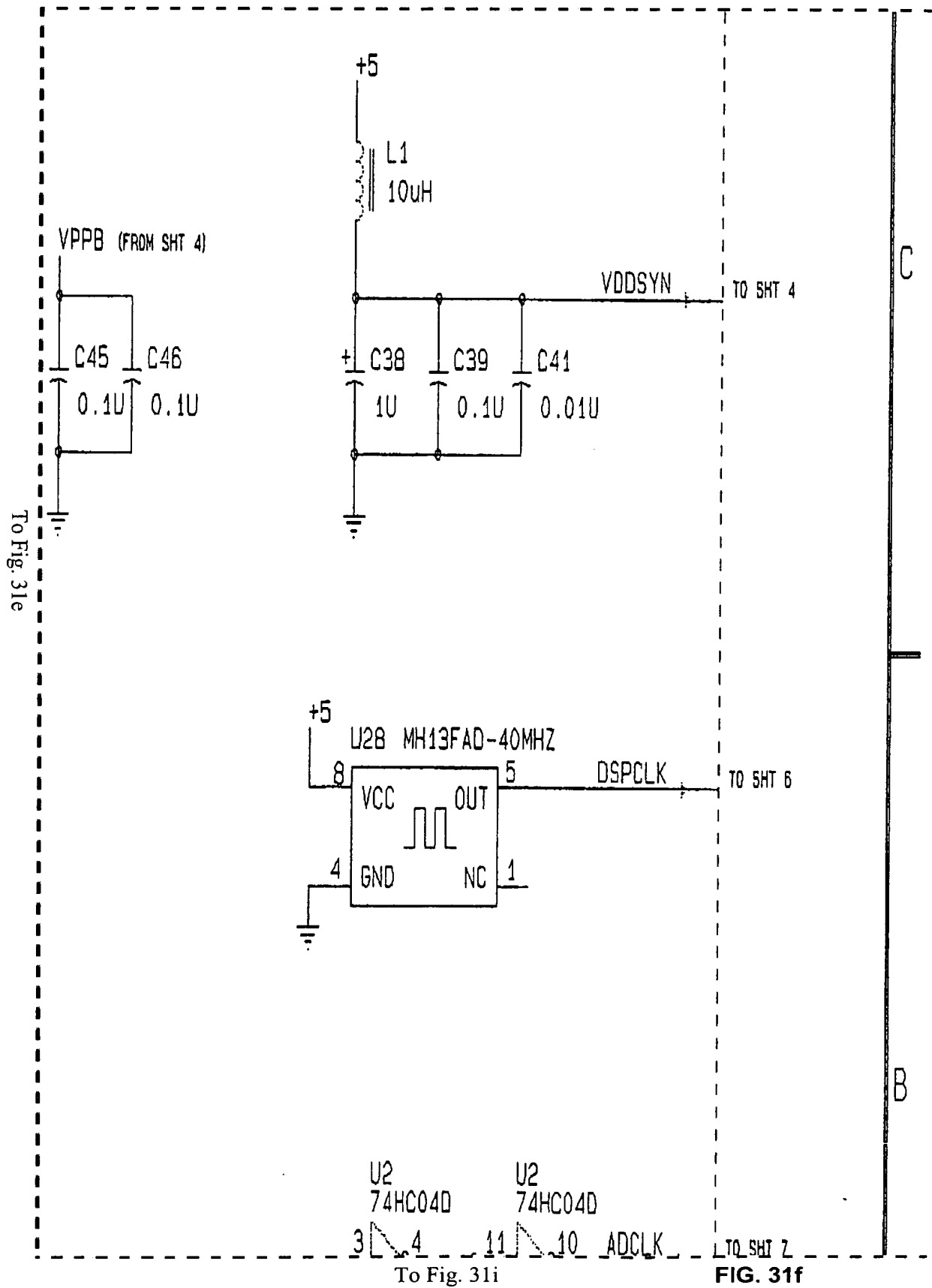
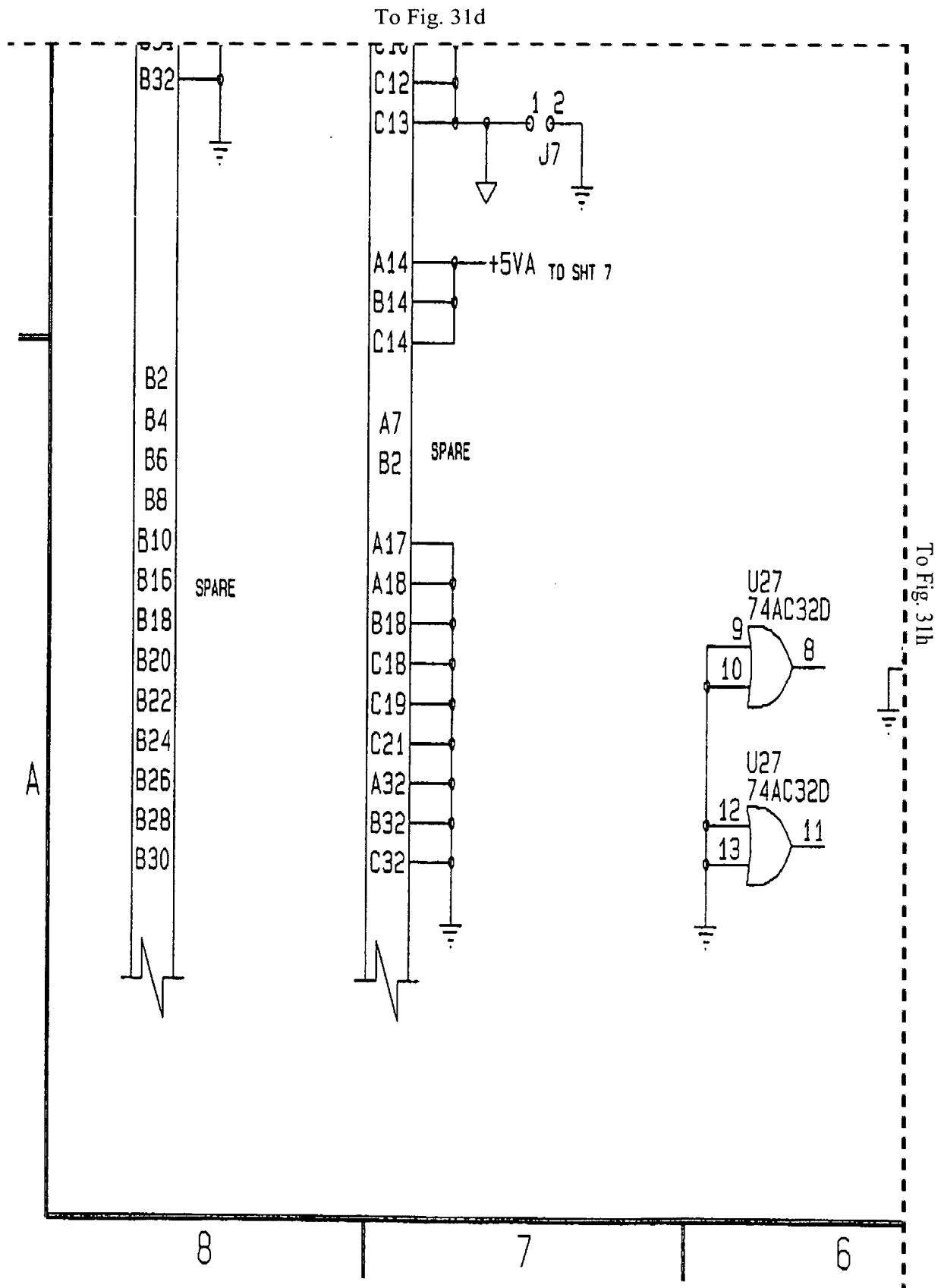
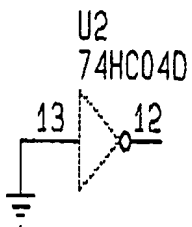


FIG. 31f



To Fig. 31e

To Fig. 31g



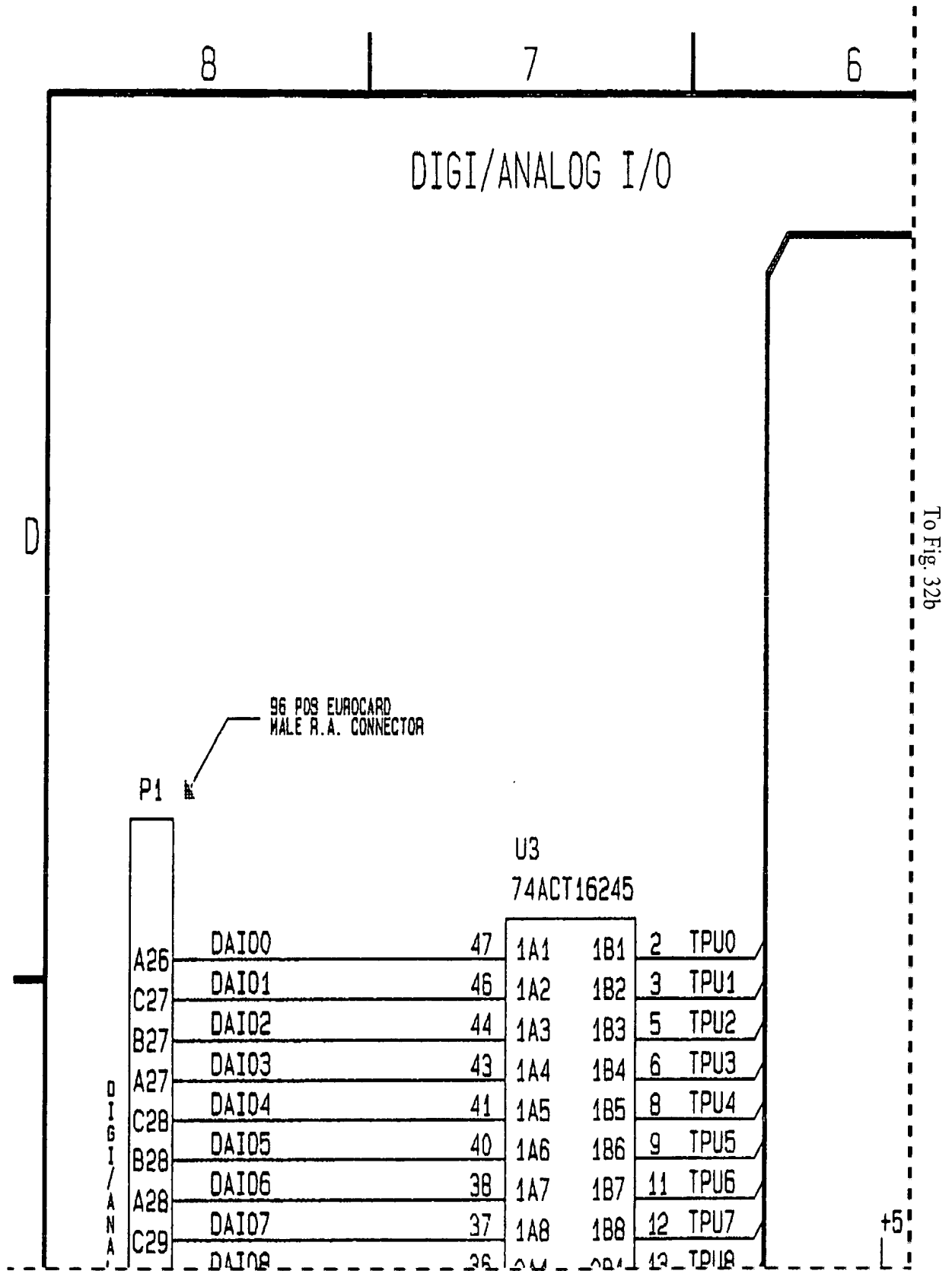
To Fig. 31i

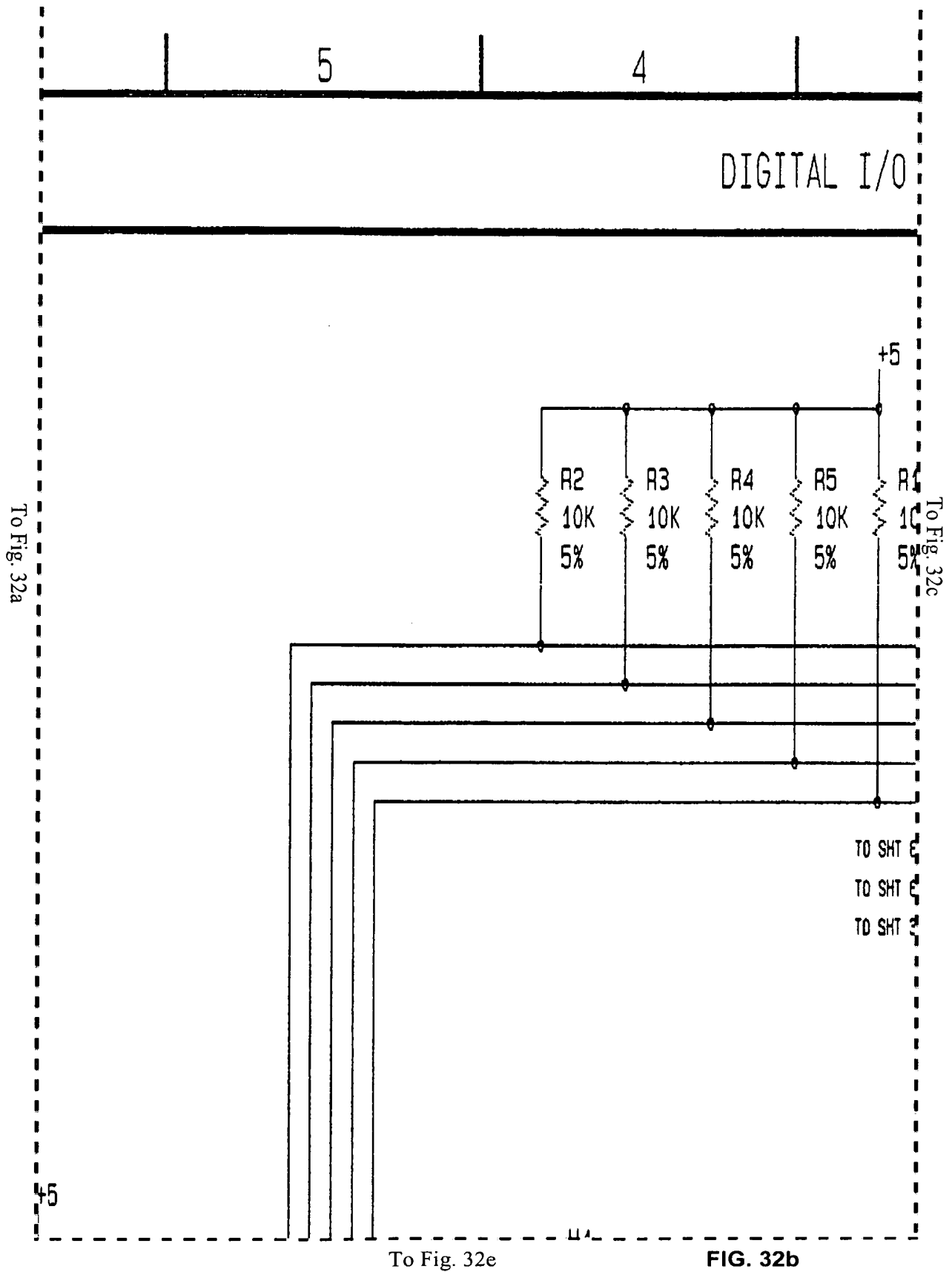
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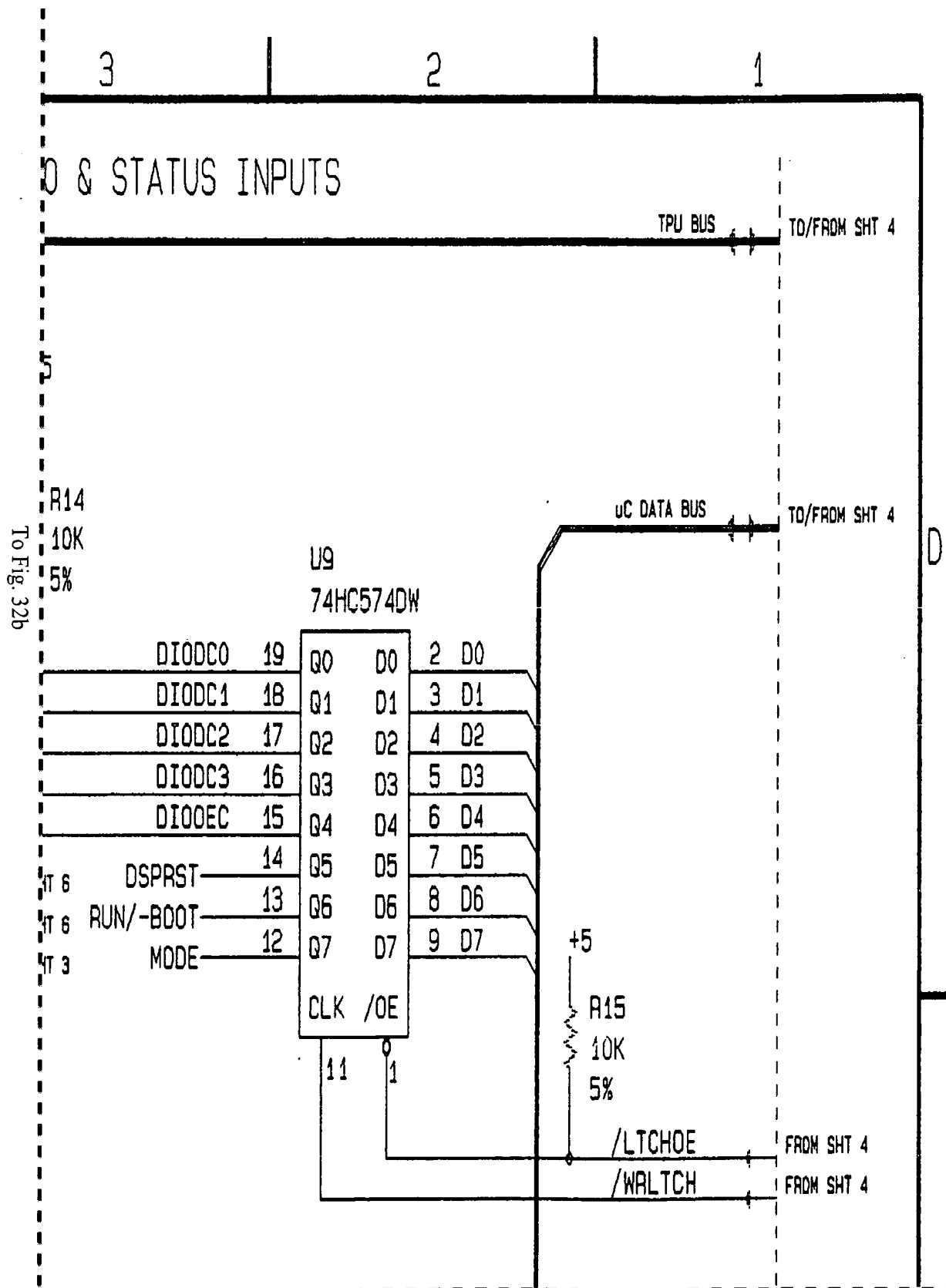
5

4

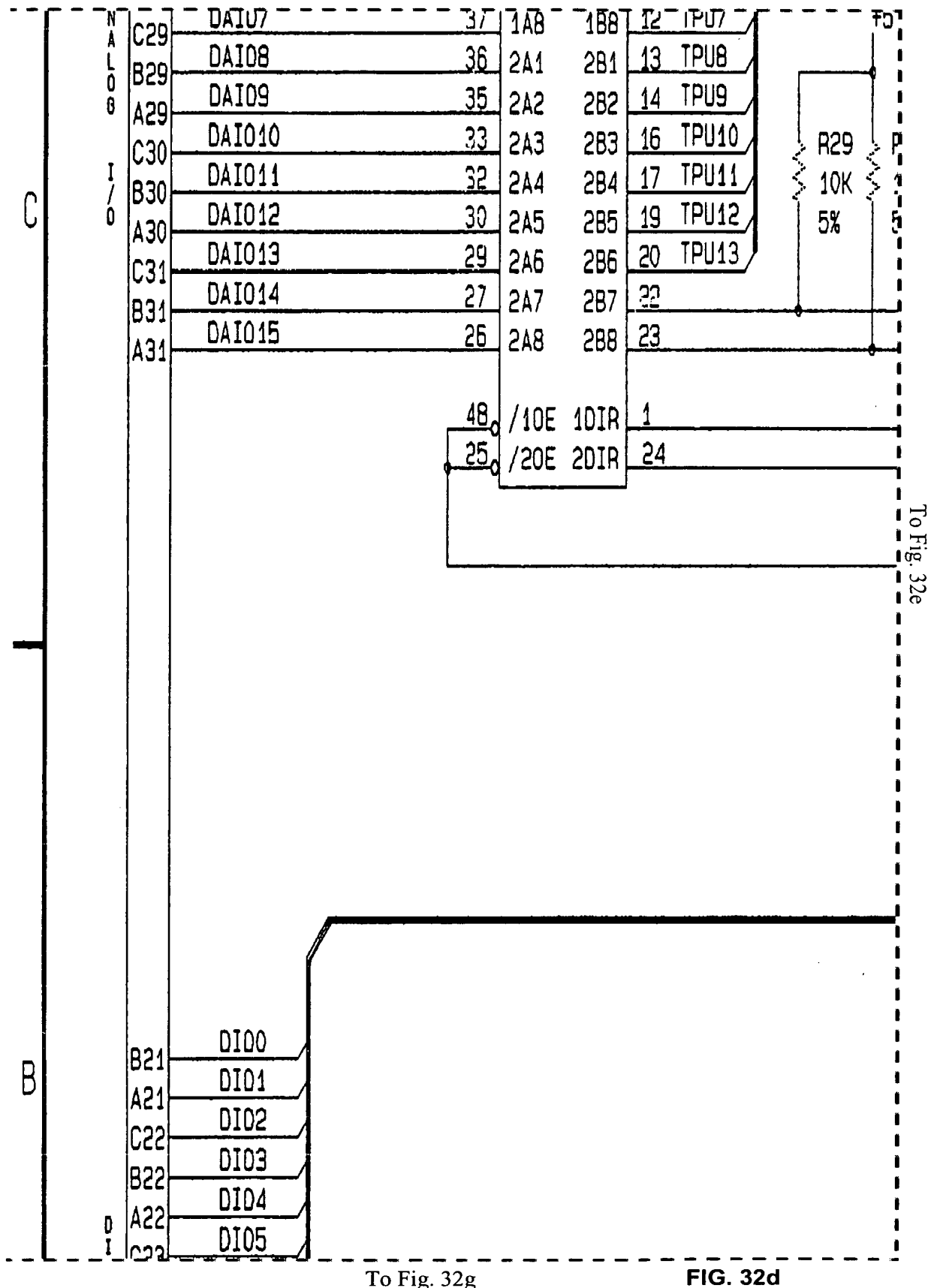
FIG. 31h

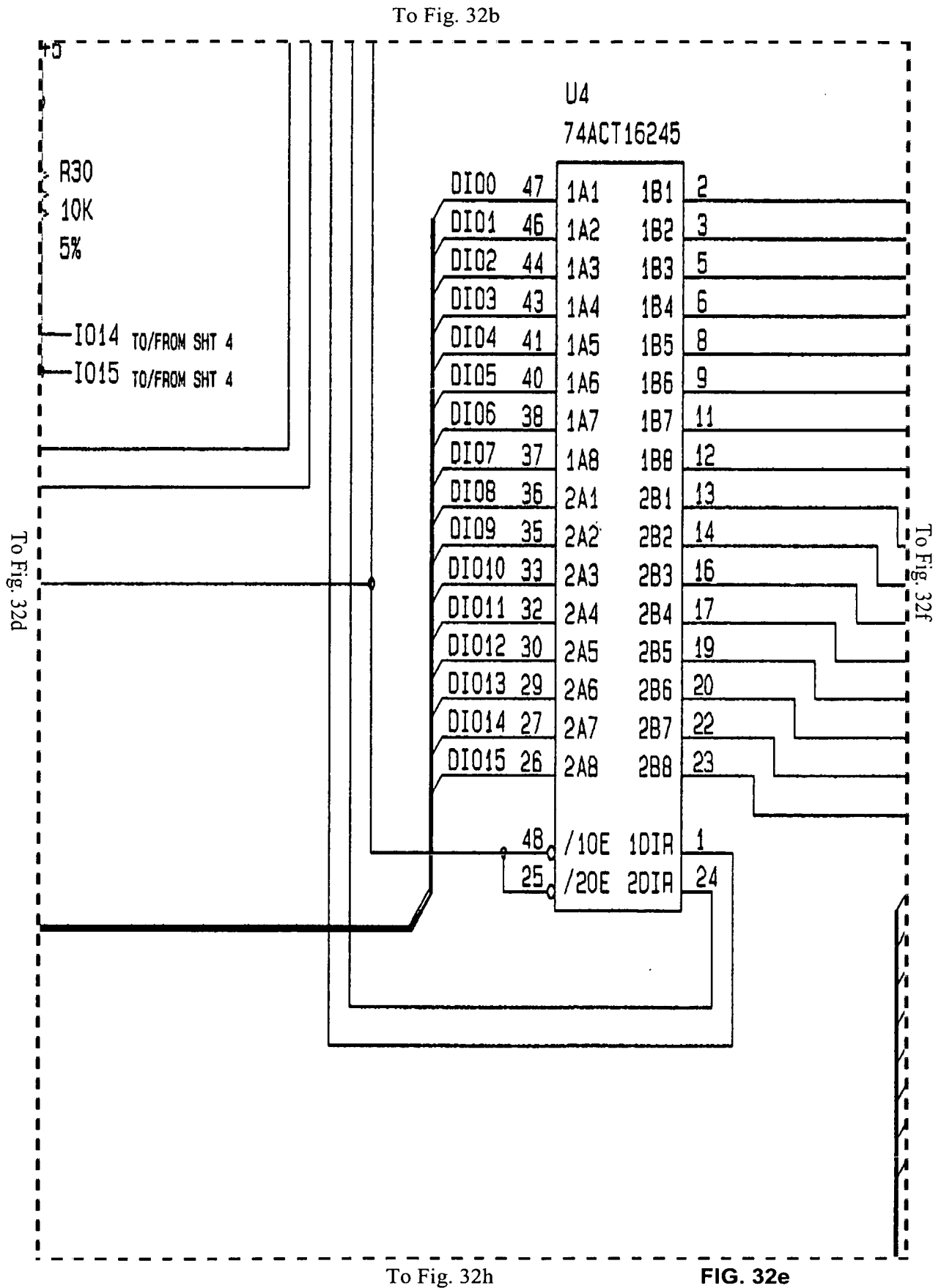




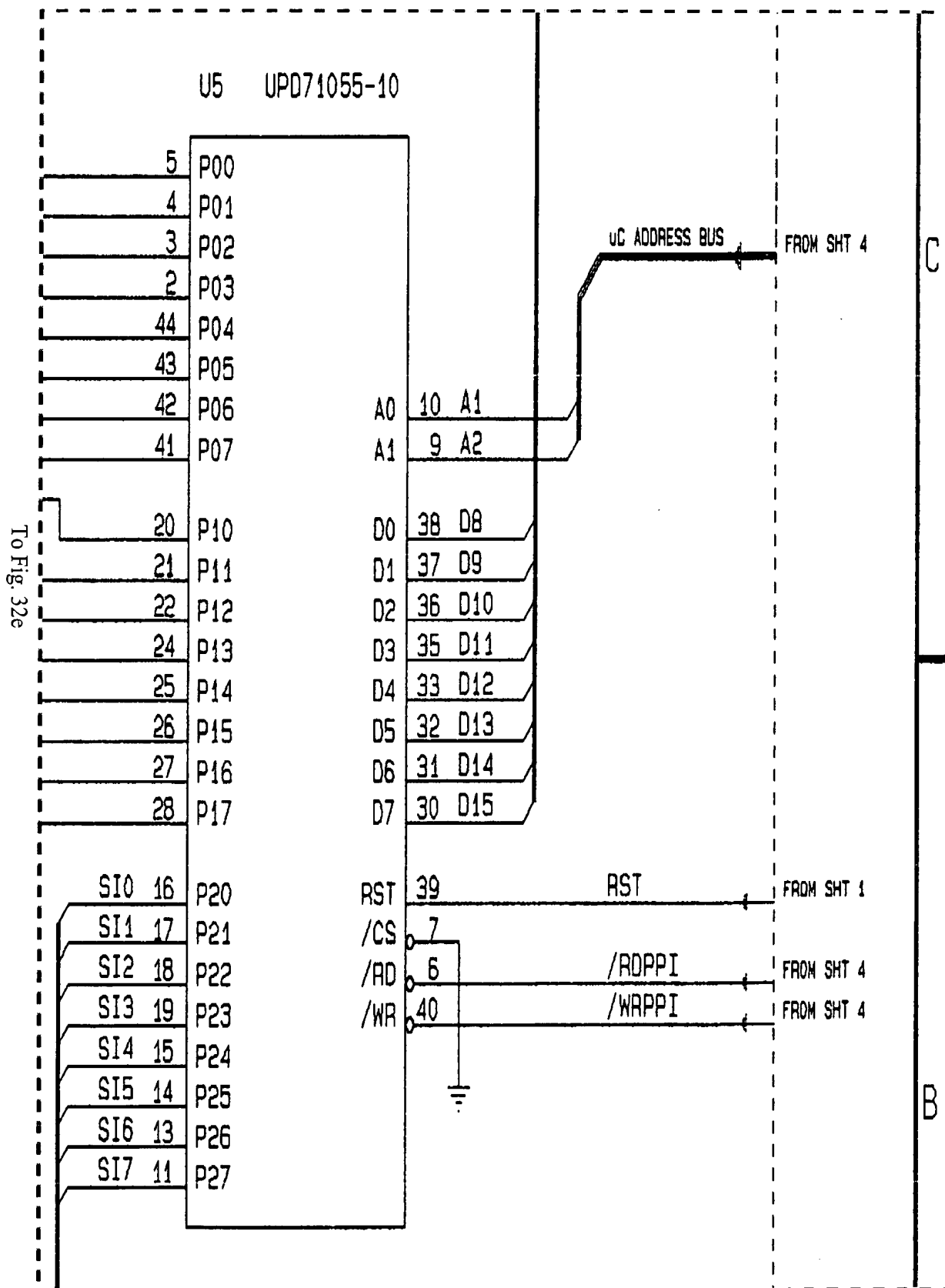


To Fig. 32a





To Fig. 32c



To Fig. 32i

FIG. 32f

To Fig. 32d

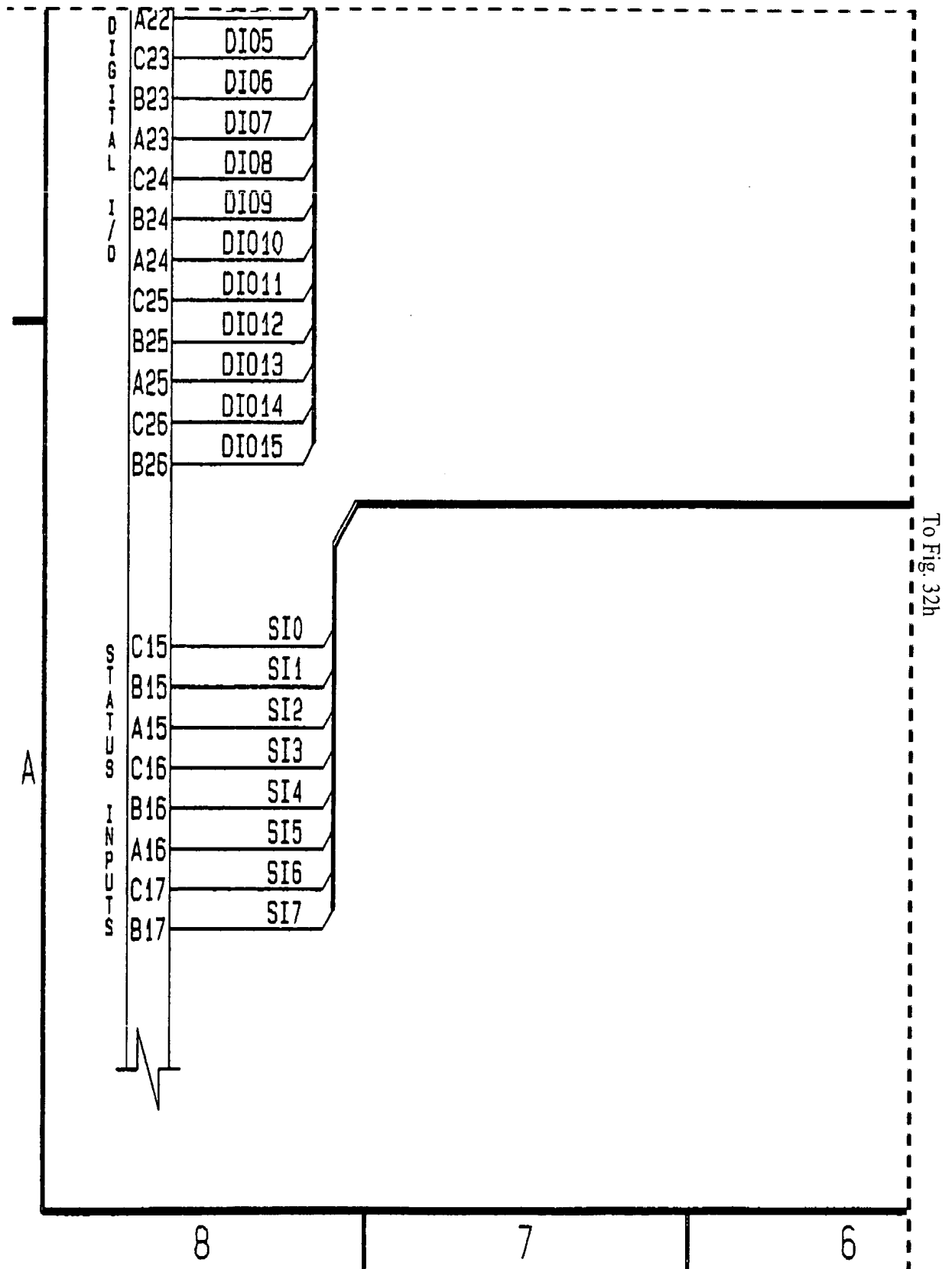


FIG. 32g

To Fig. 32e

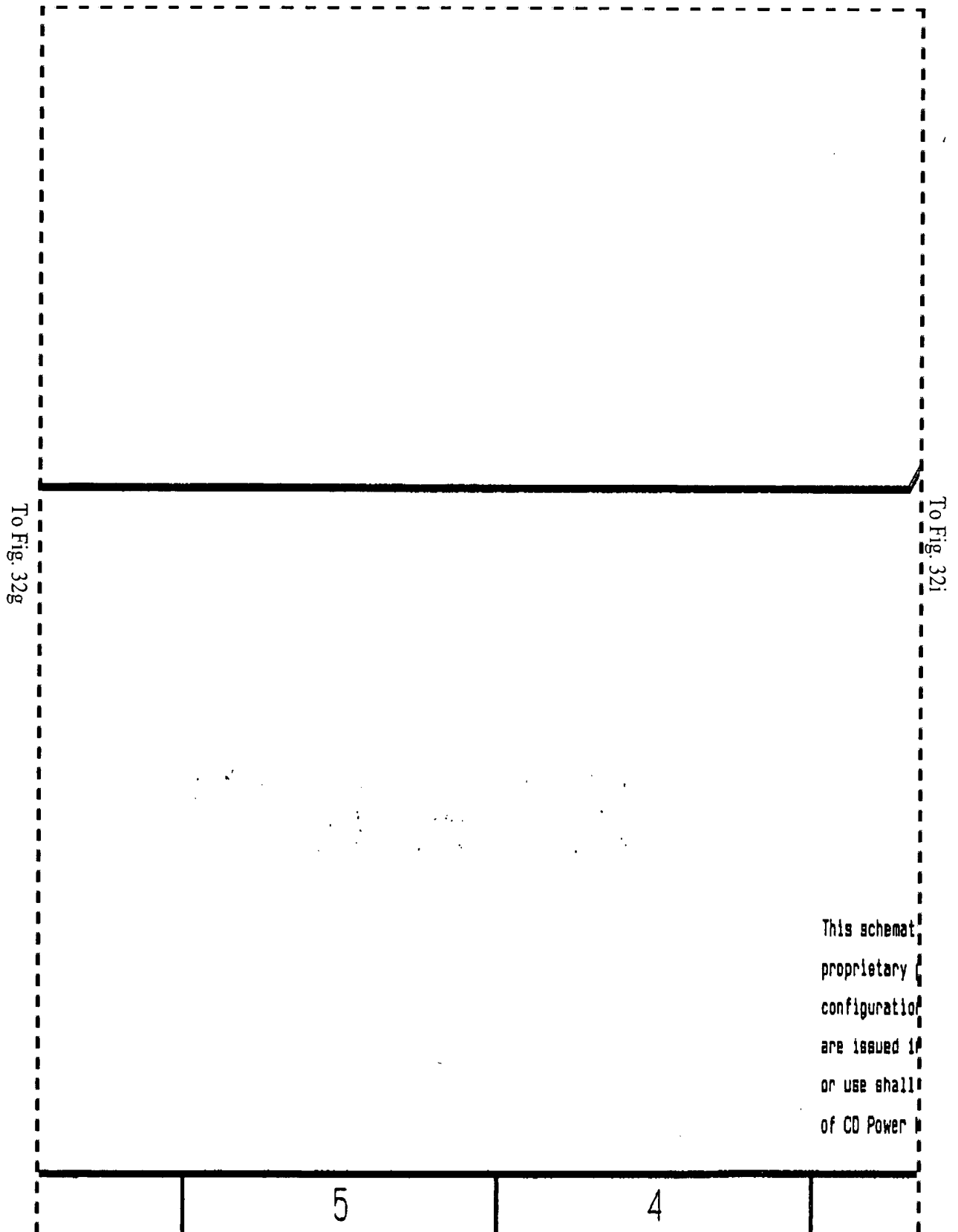
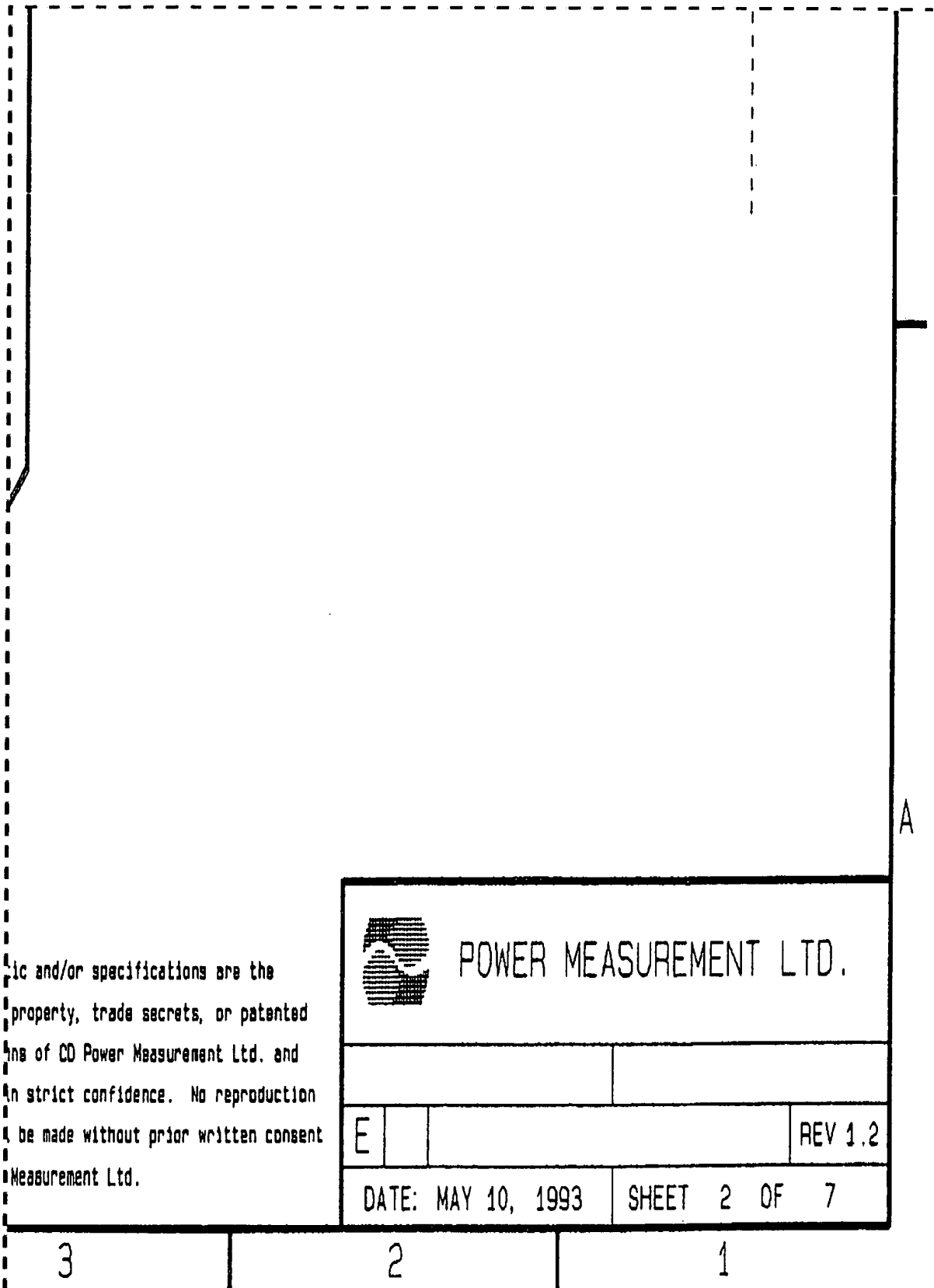


FIG. 32h

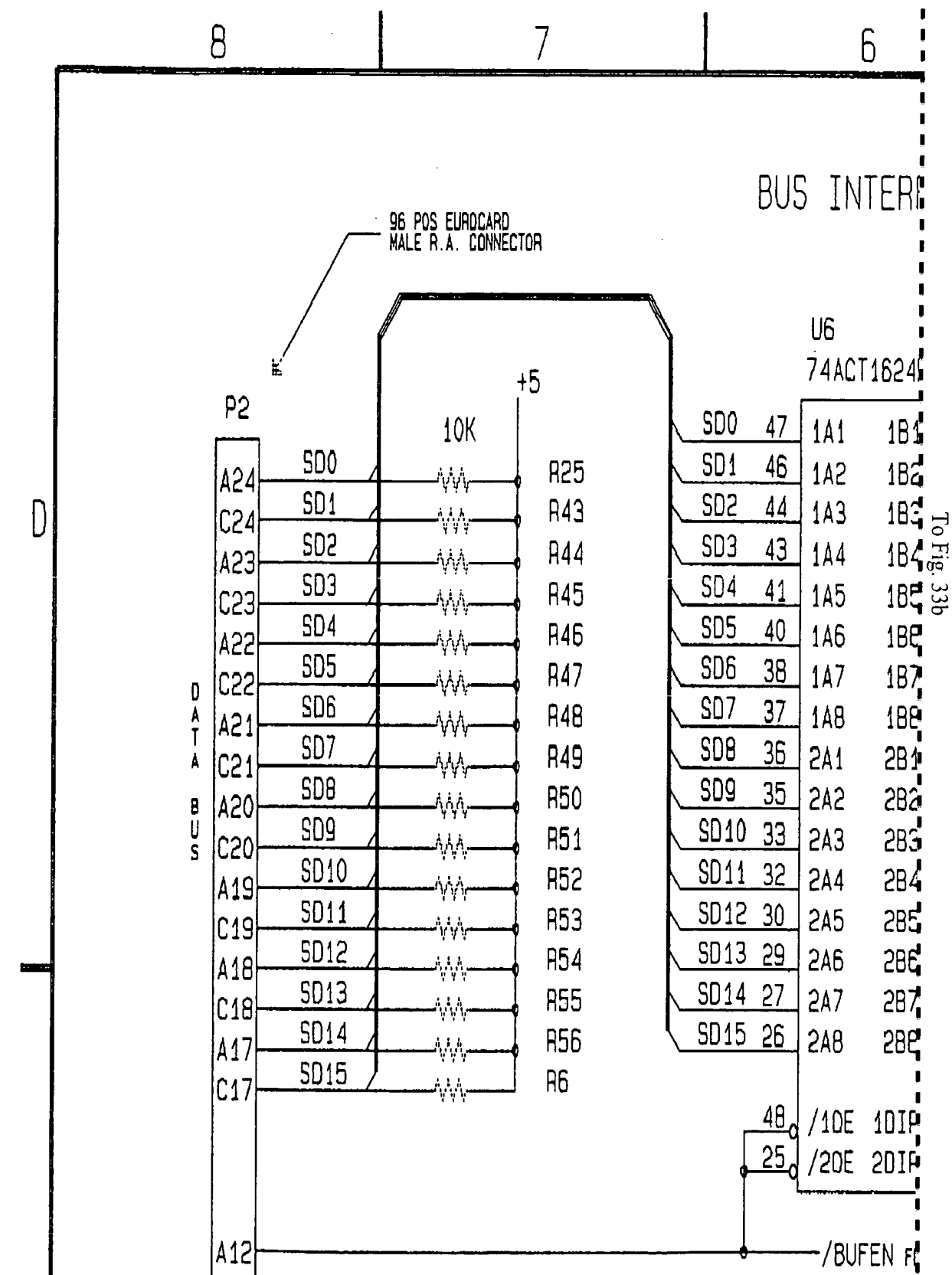
To Fig. 32f

To Fig. 32h



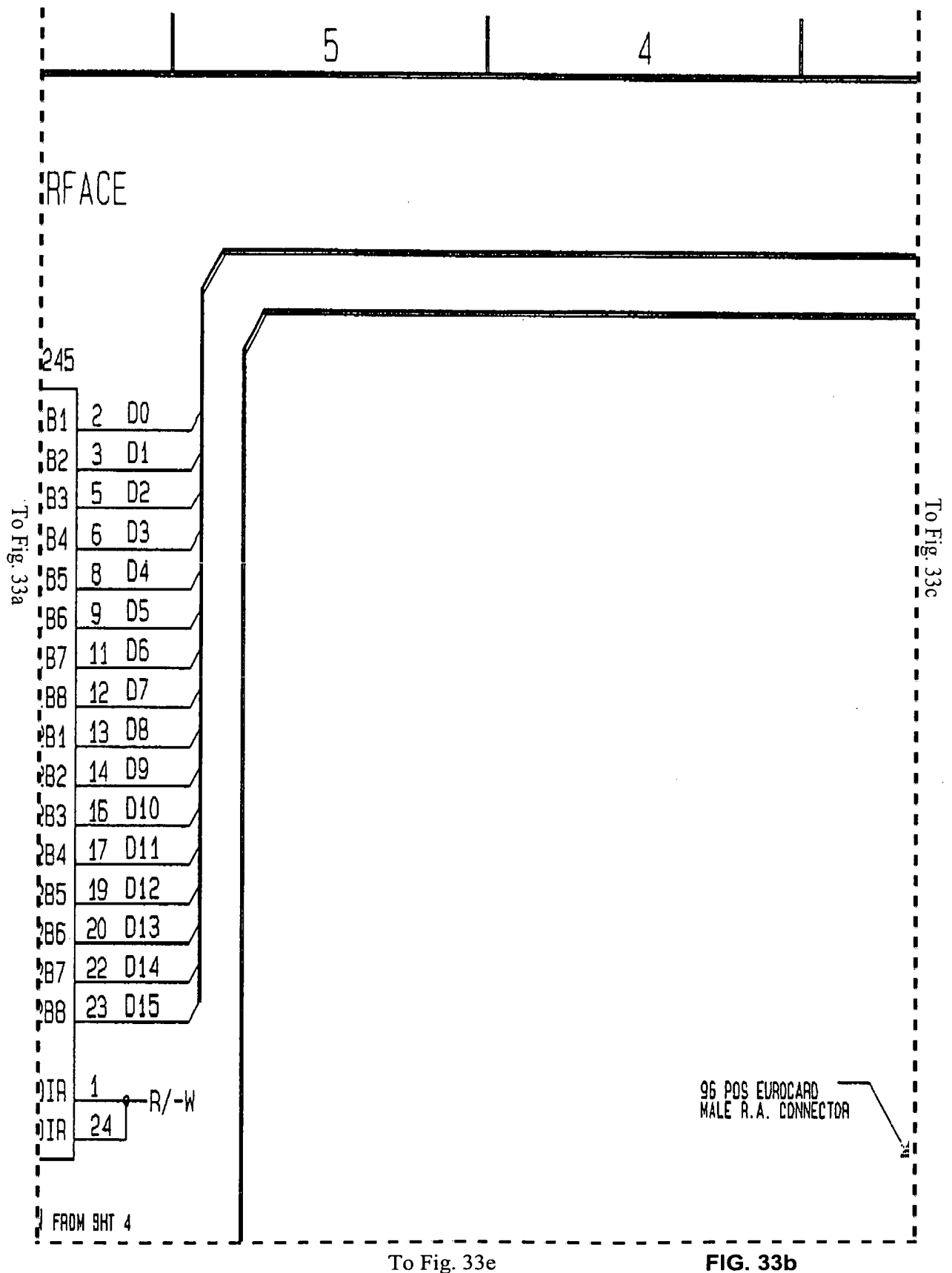
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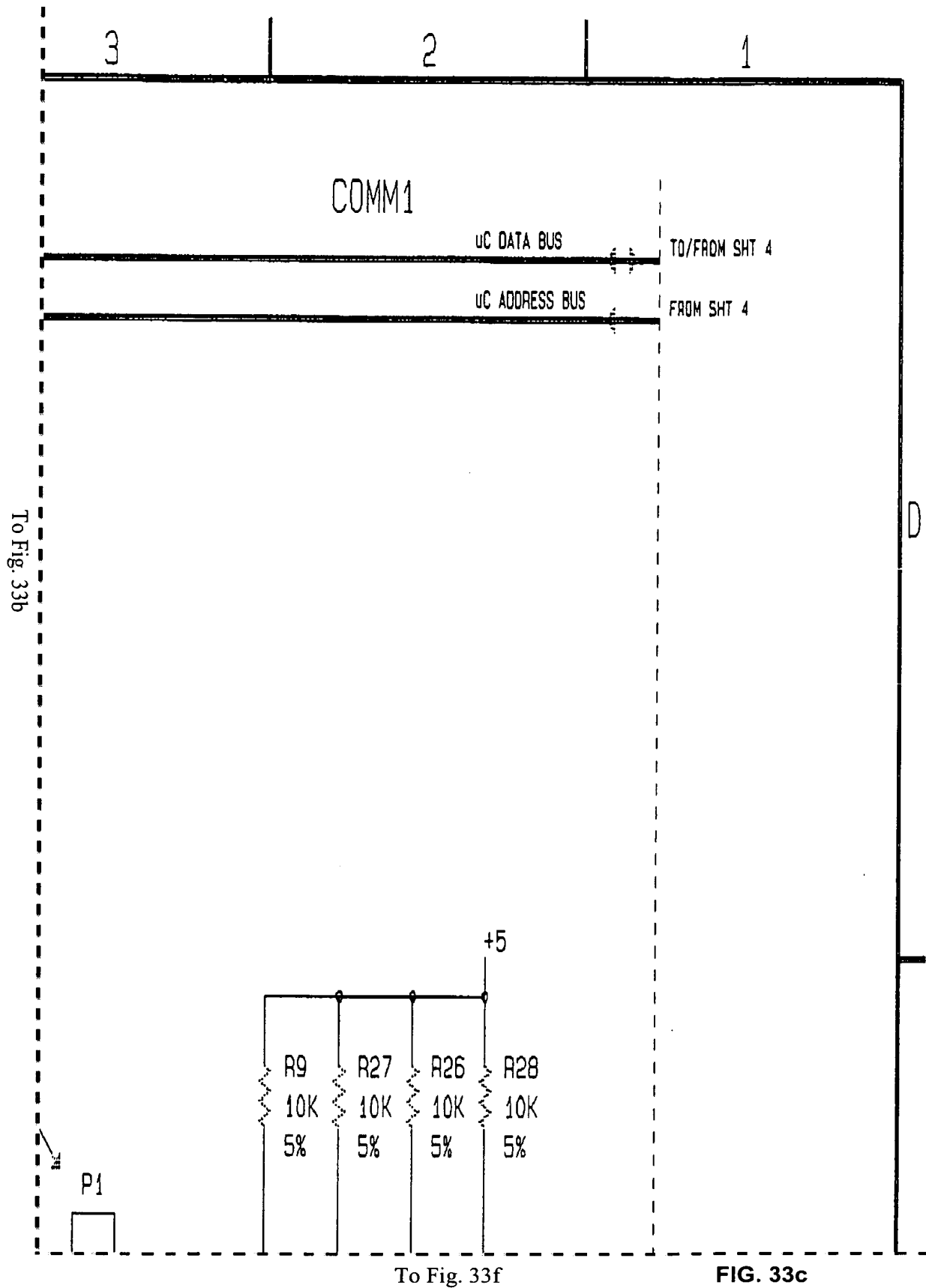
FIG. 32i



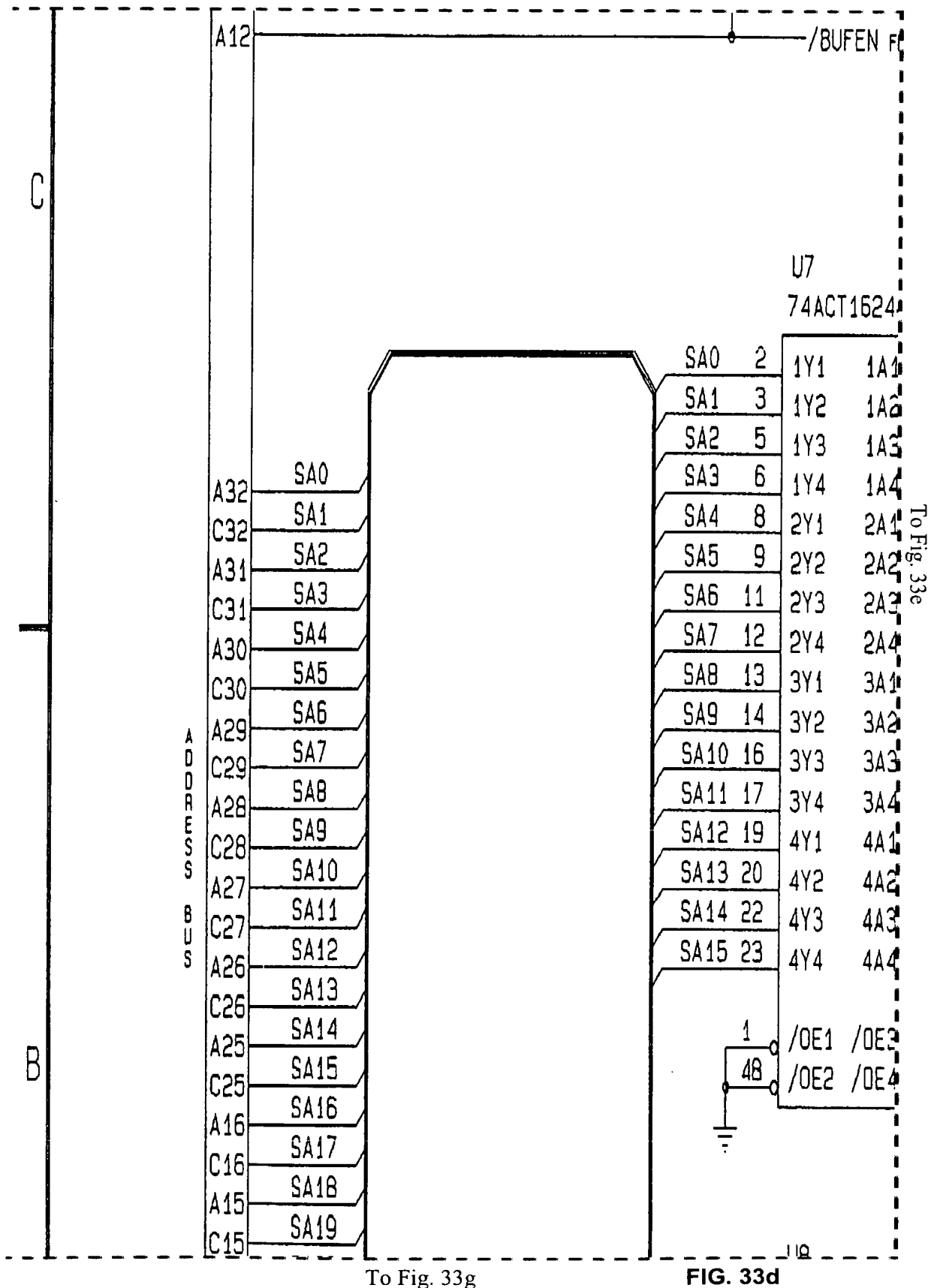
To Fig. 33d

FIG. 33a



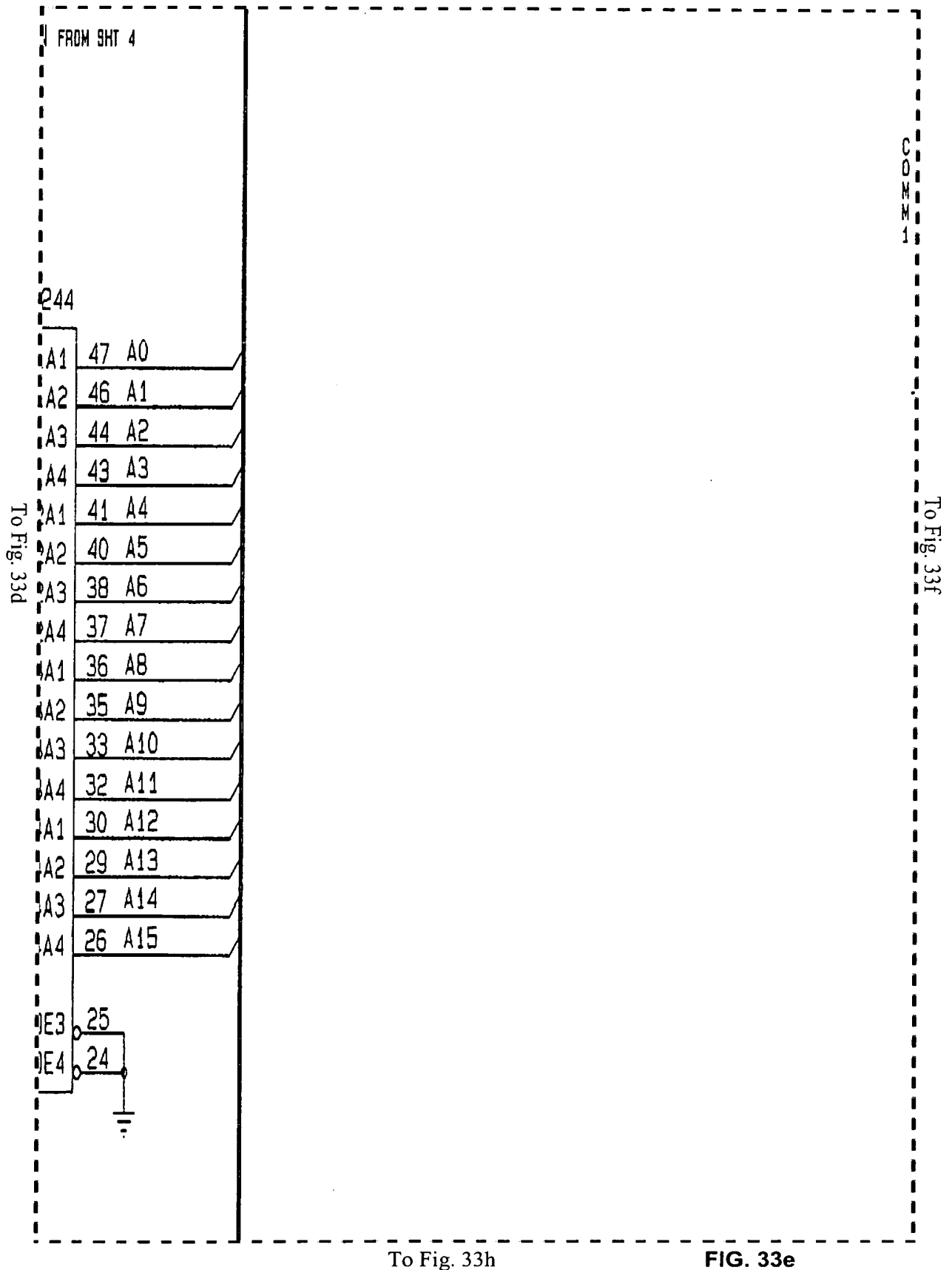


To Fig. 33a

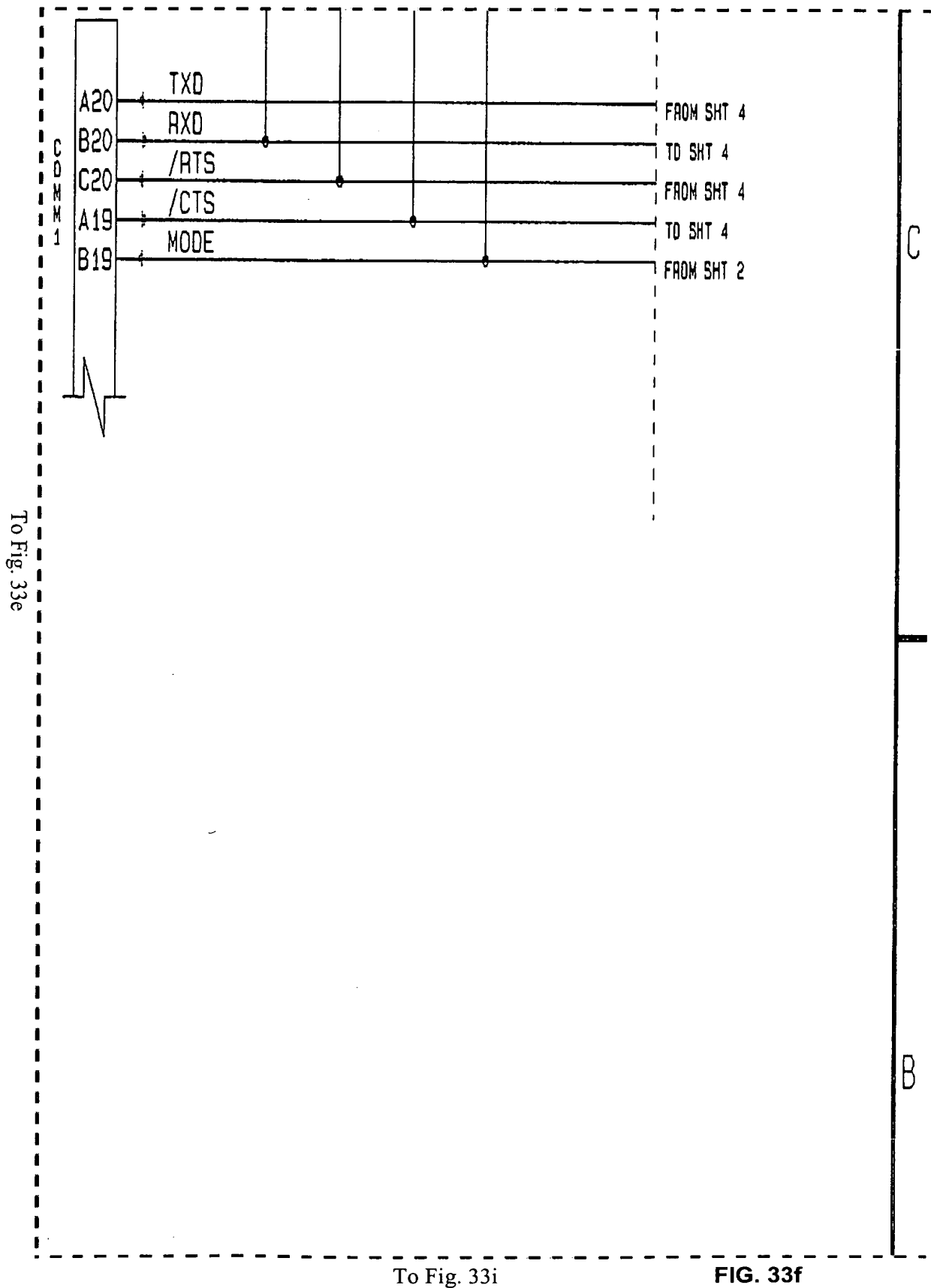


To Fig. 33g

To Fig. 33b



To Fig. 33c



To Fig. 33d

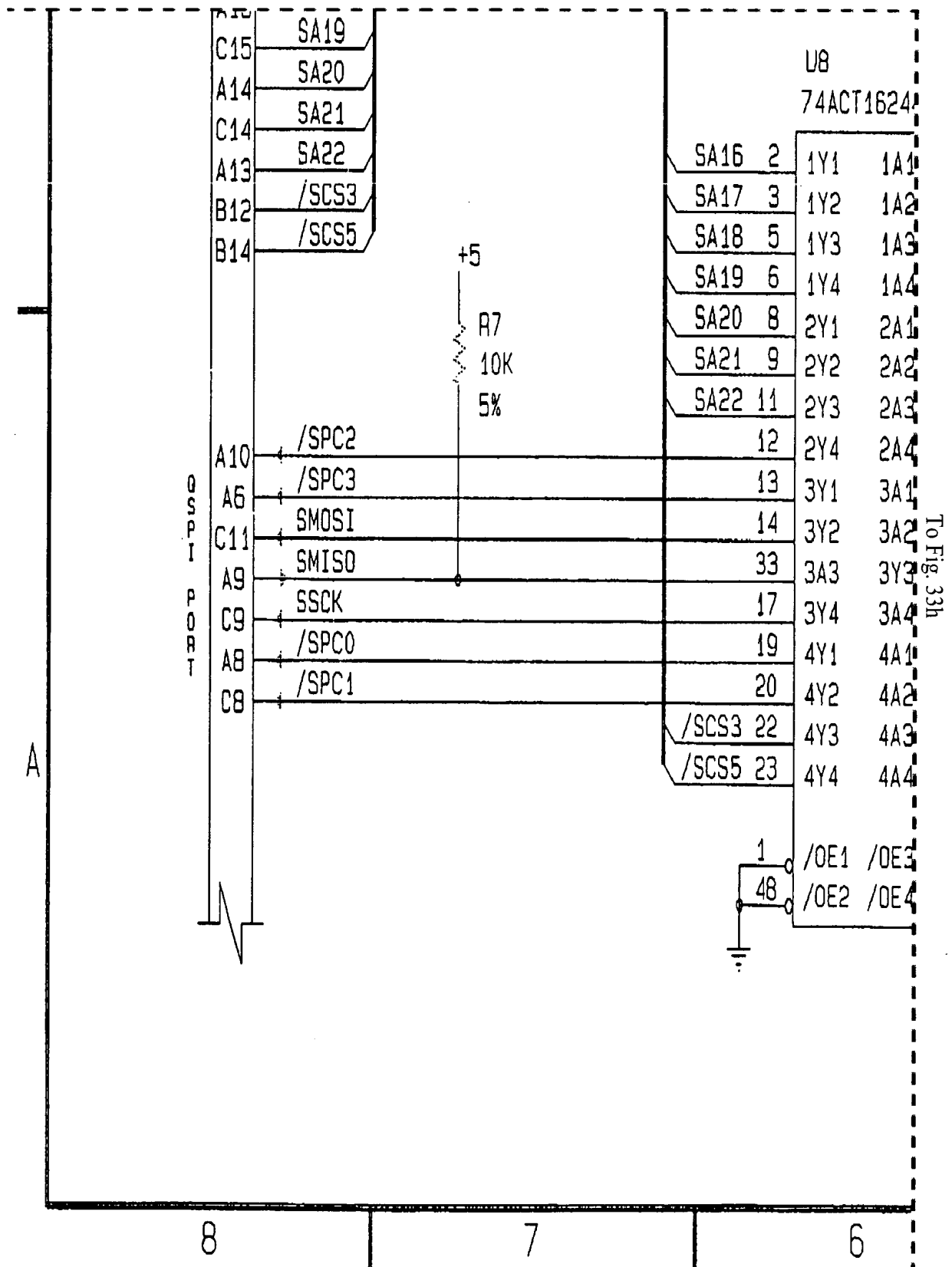


FIG. 33g

To Fig. 33e

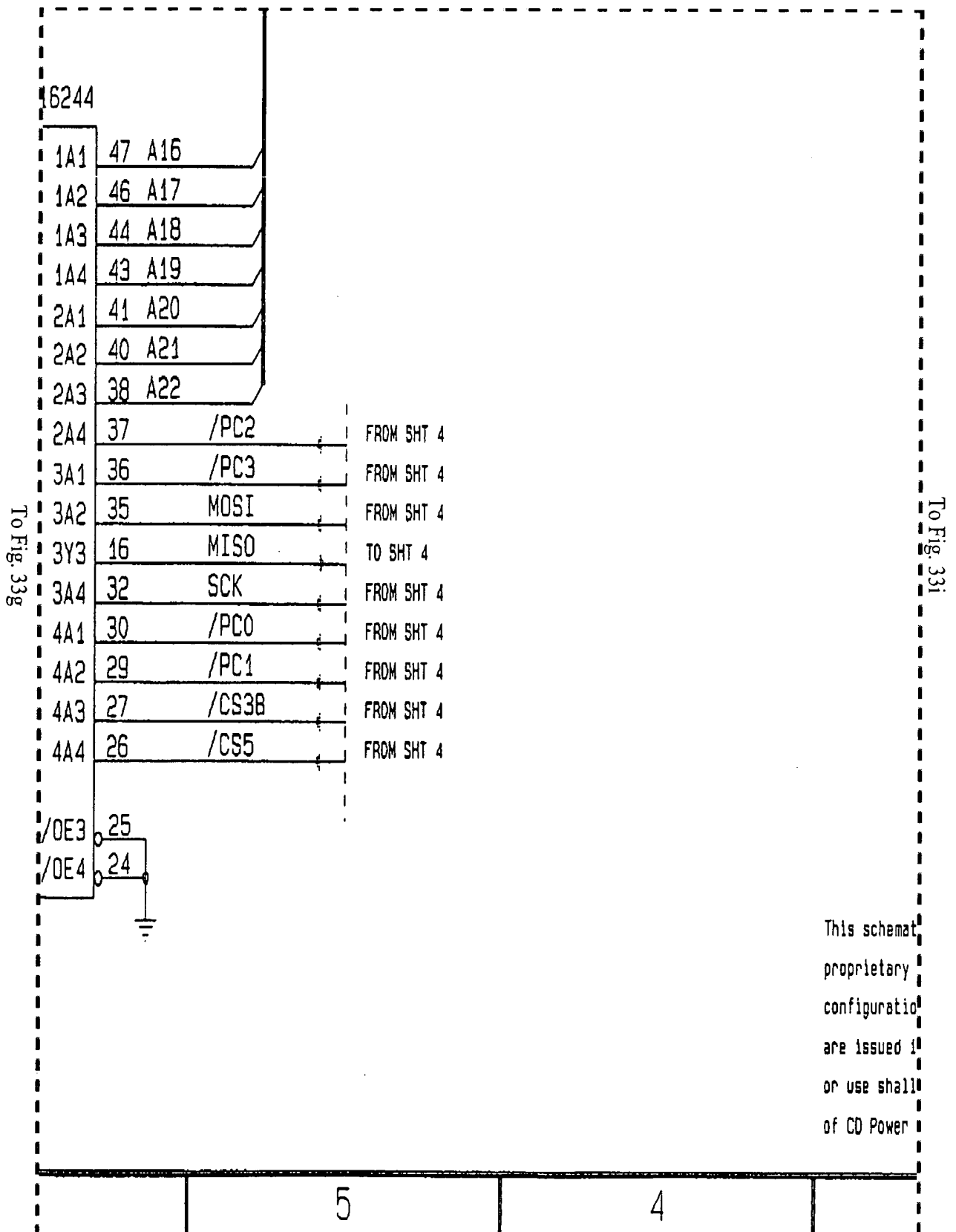
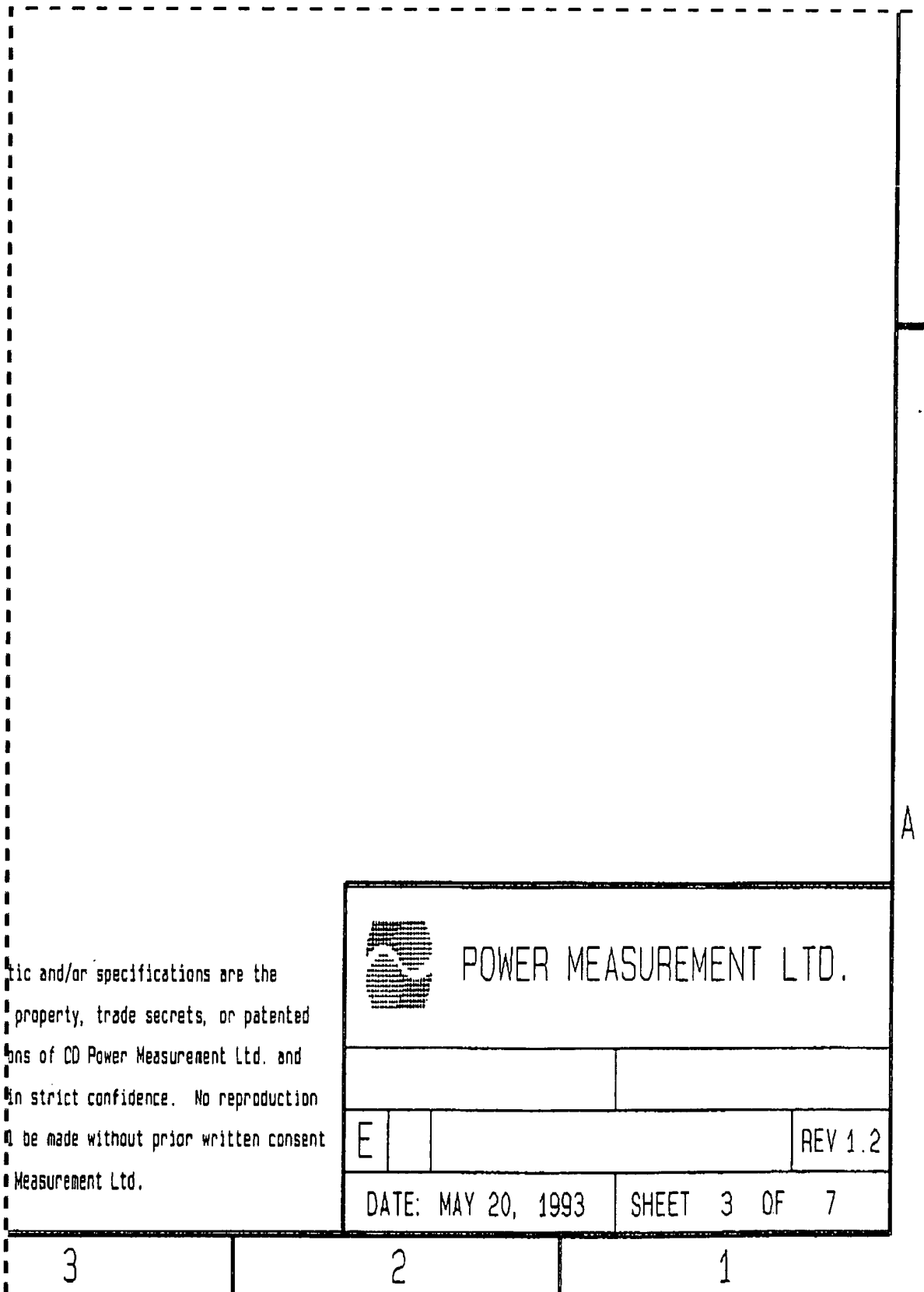


FIG. 33h

To Fig. 33f

To Fig. 33h



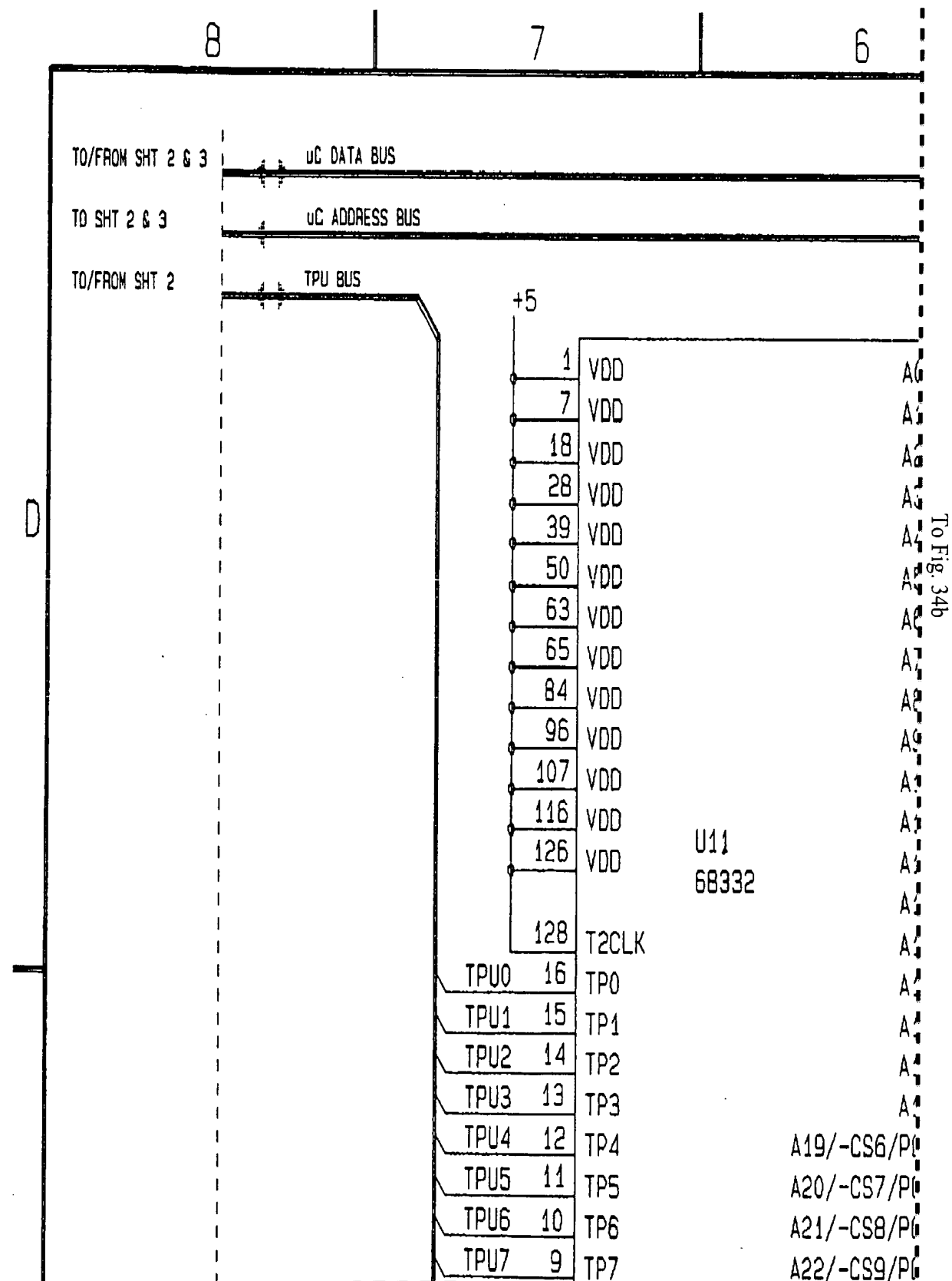
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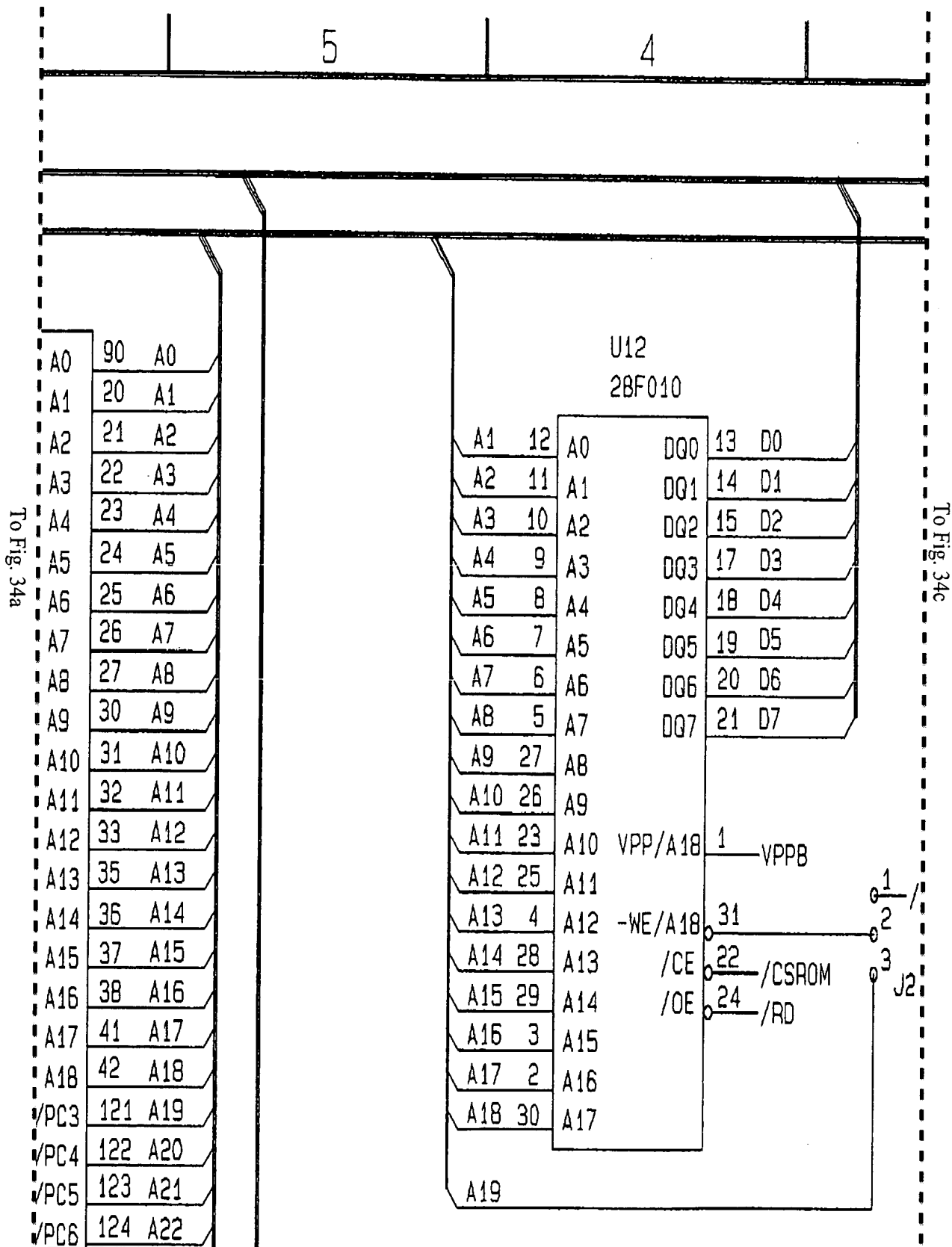
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FIG. 33i



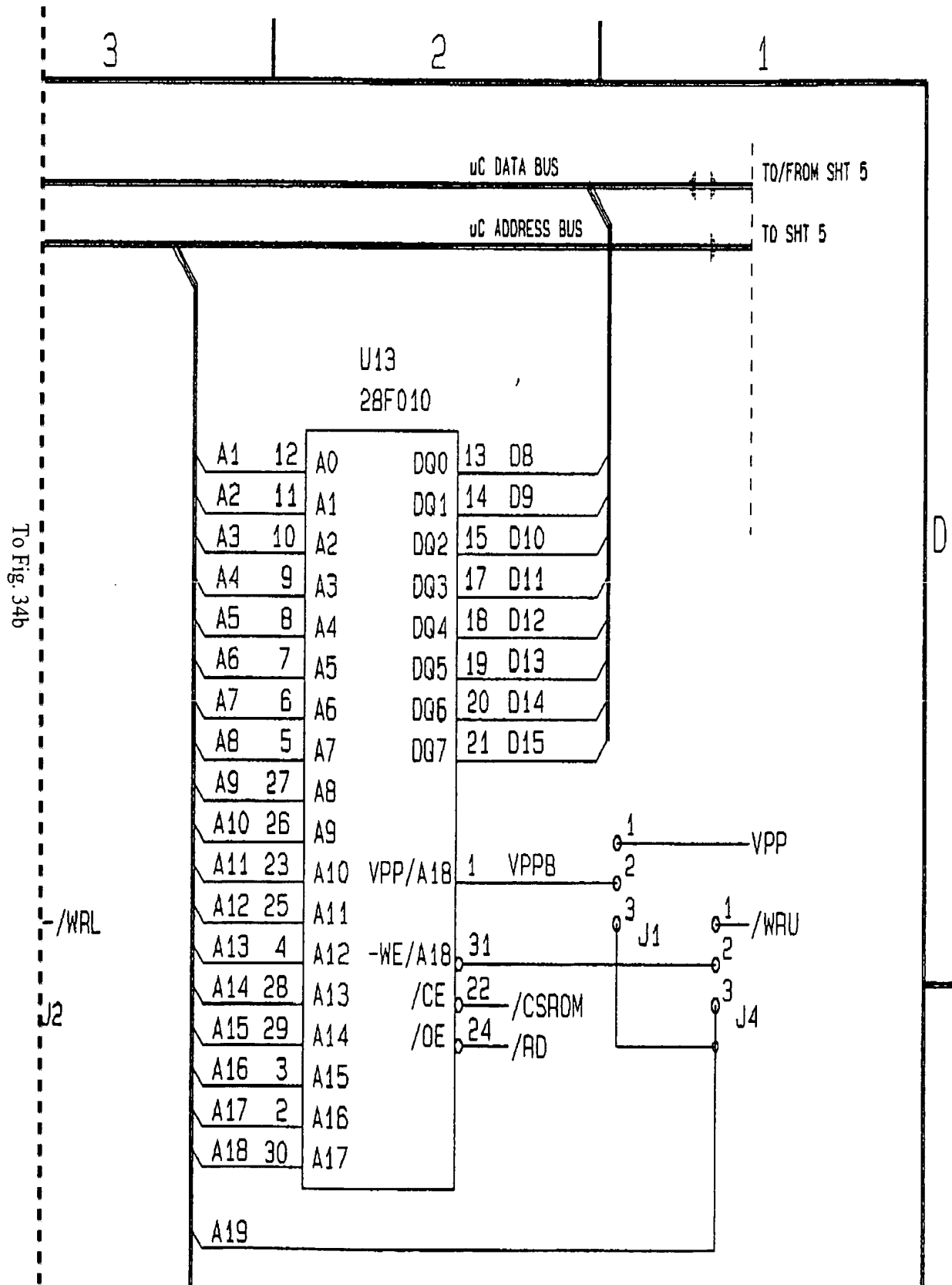
To Fig. 34d

FIG. 34a



To Fig. 34e

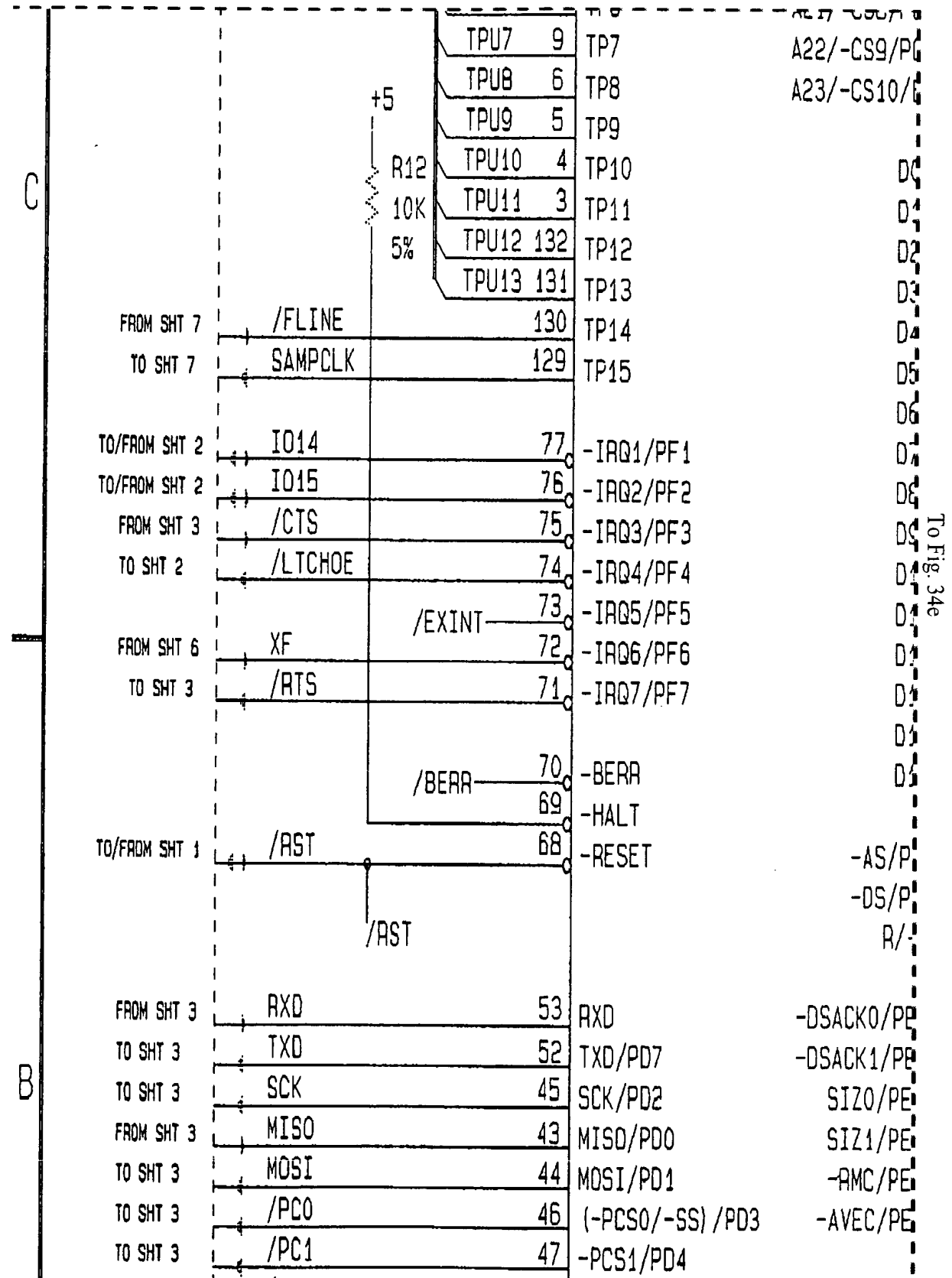
FIG. 34b



To Fig. 34f

FIG. 34c

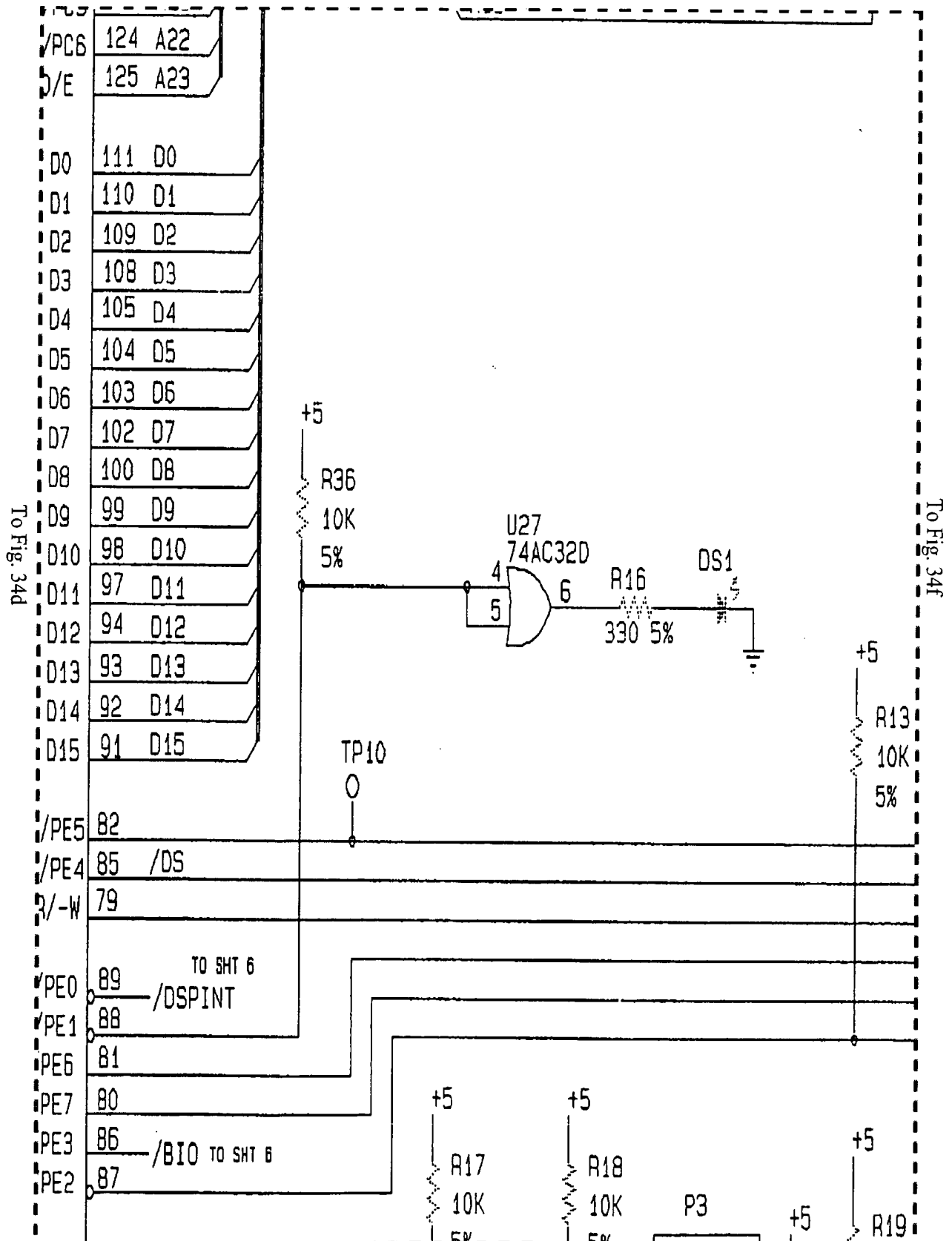
To Fig. 34a



To Fig. 34g

FIG. 34d

To Fig. 34b



To Fig. 34h

FIG. 34e

28FO10: J2 (1-2), J4 (1-2), J1 (1-2)
28FO20: J2 (1-2), J4 (1-2), J1 (1-2)
29FO10: J2 (1-2), J4 (1-2)
29FO40: J2 (1-2), J4 (1-2), J1 (2-3)
27CO10:
27CO20:
27CO40: J2 (2-3), J4 (2-3)

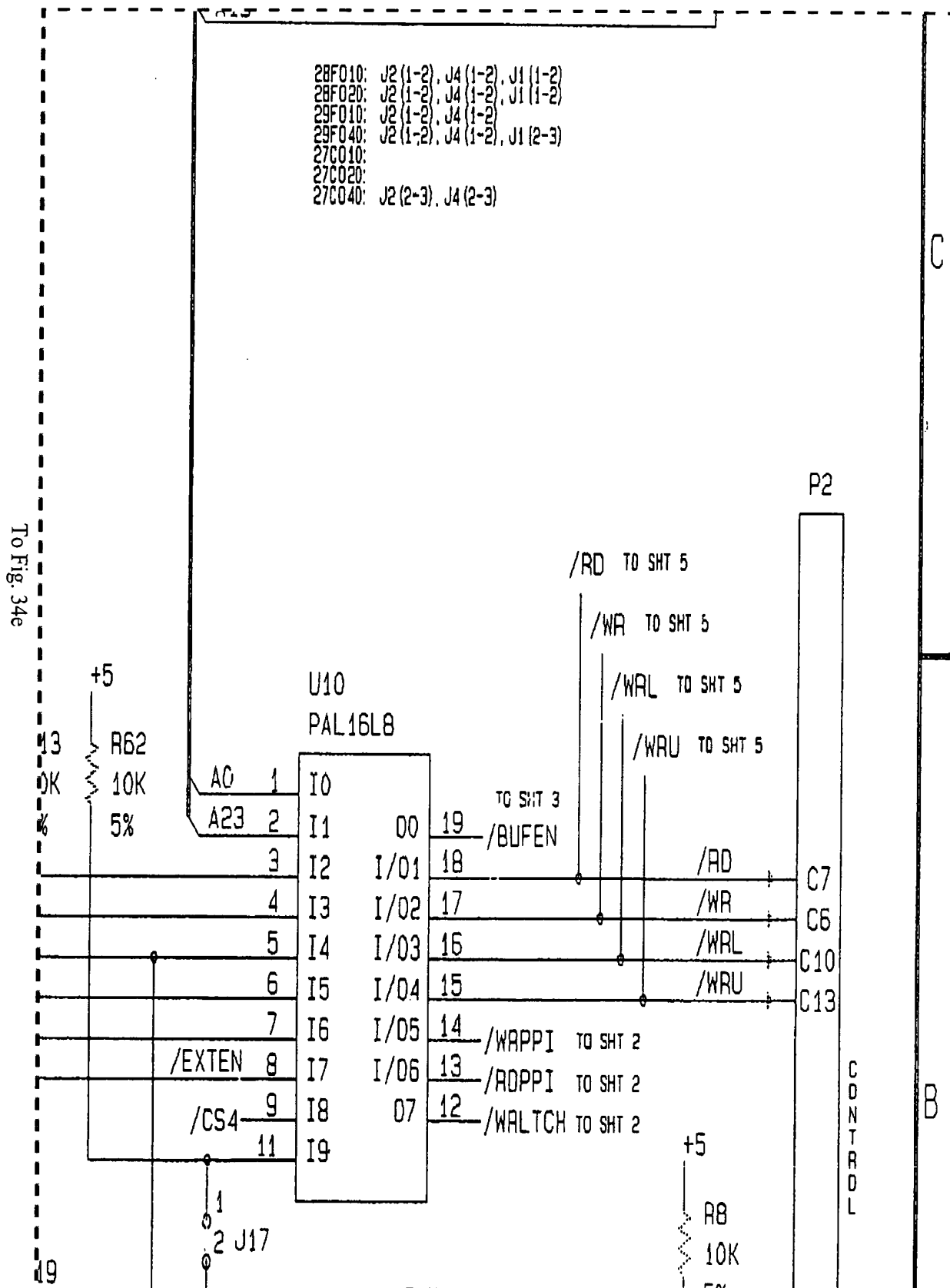


FIG. 34f

To Fig. 34d

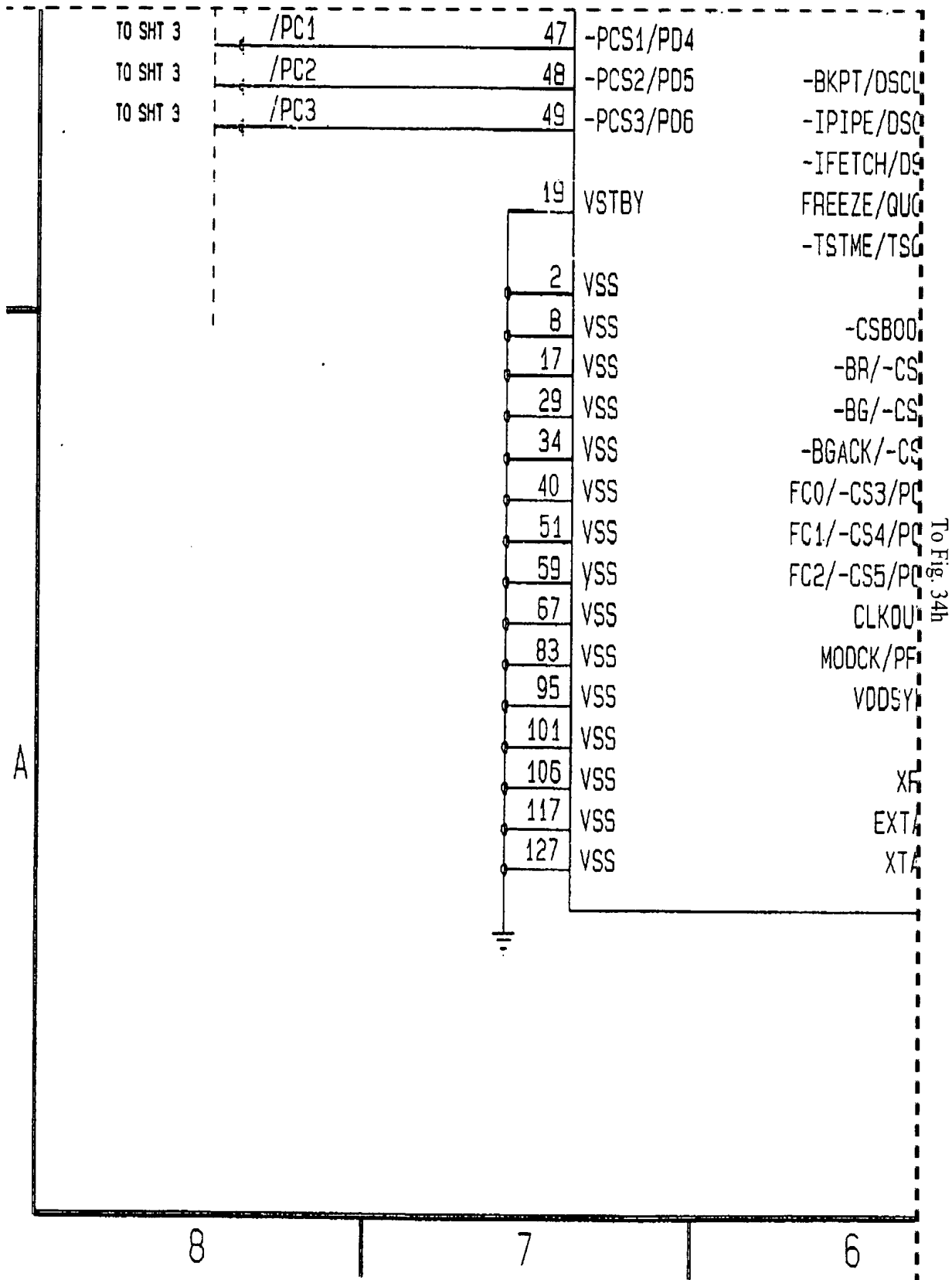


FIG. 34g

To Fig. 34e

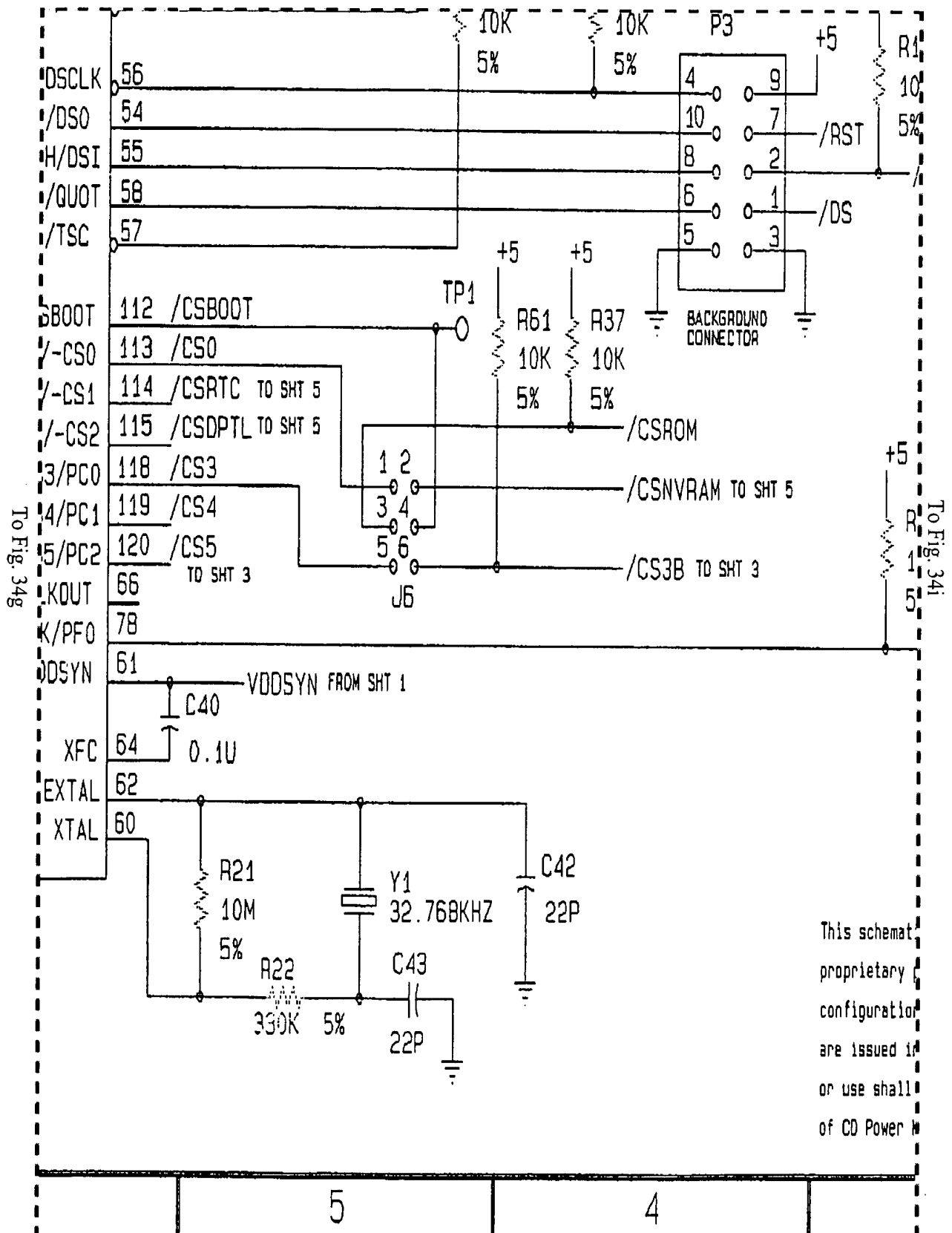
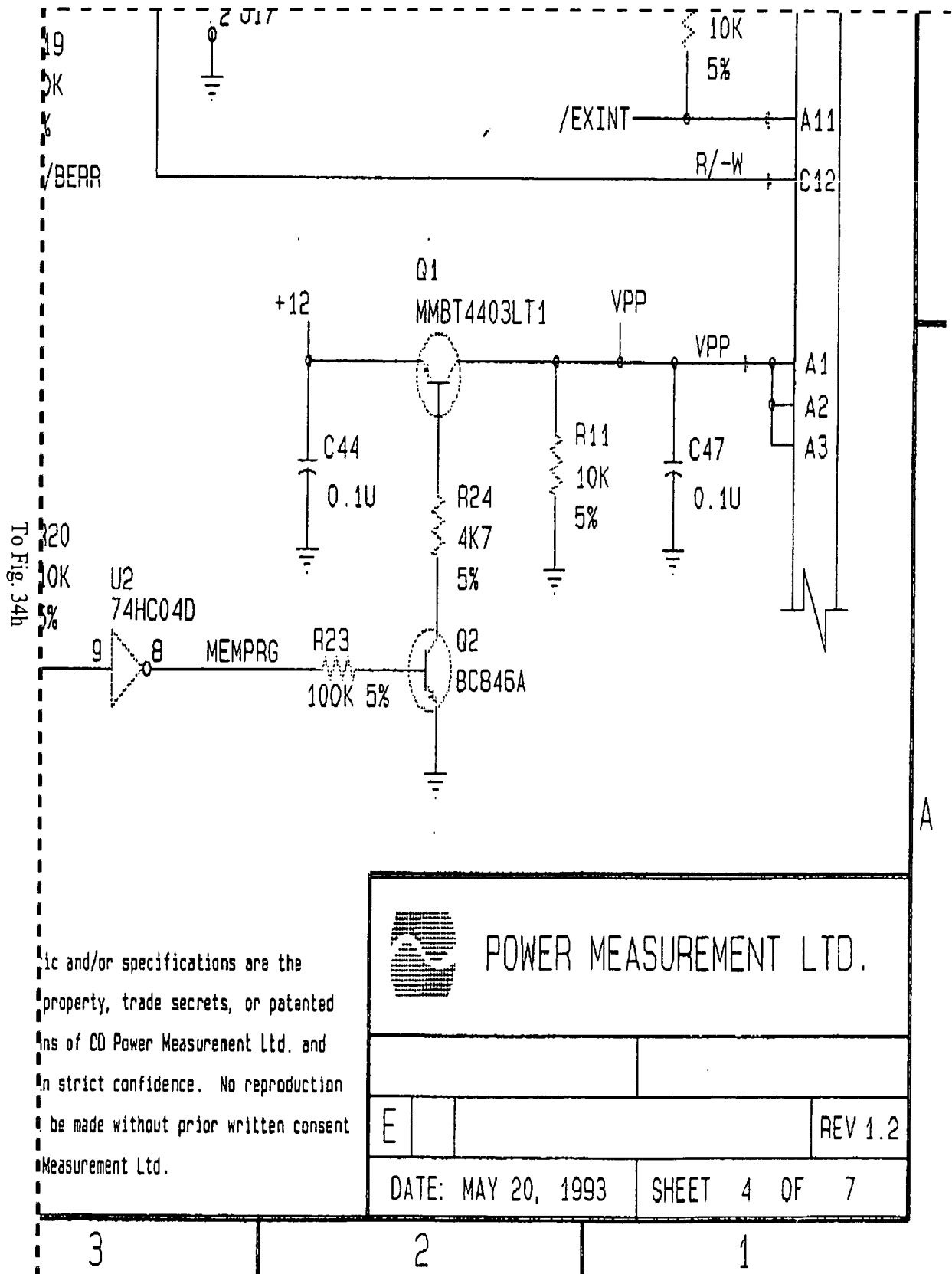


FIG. 34h

To Fig. 34f



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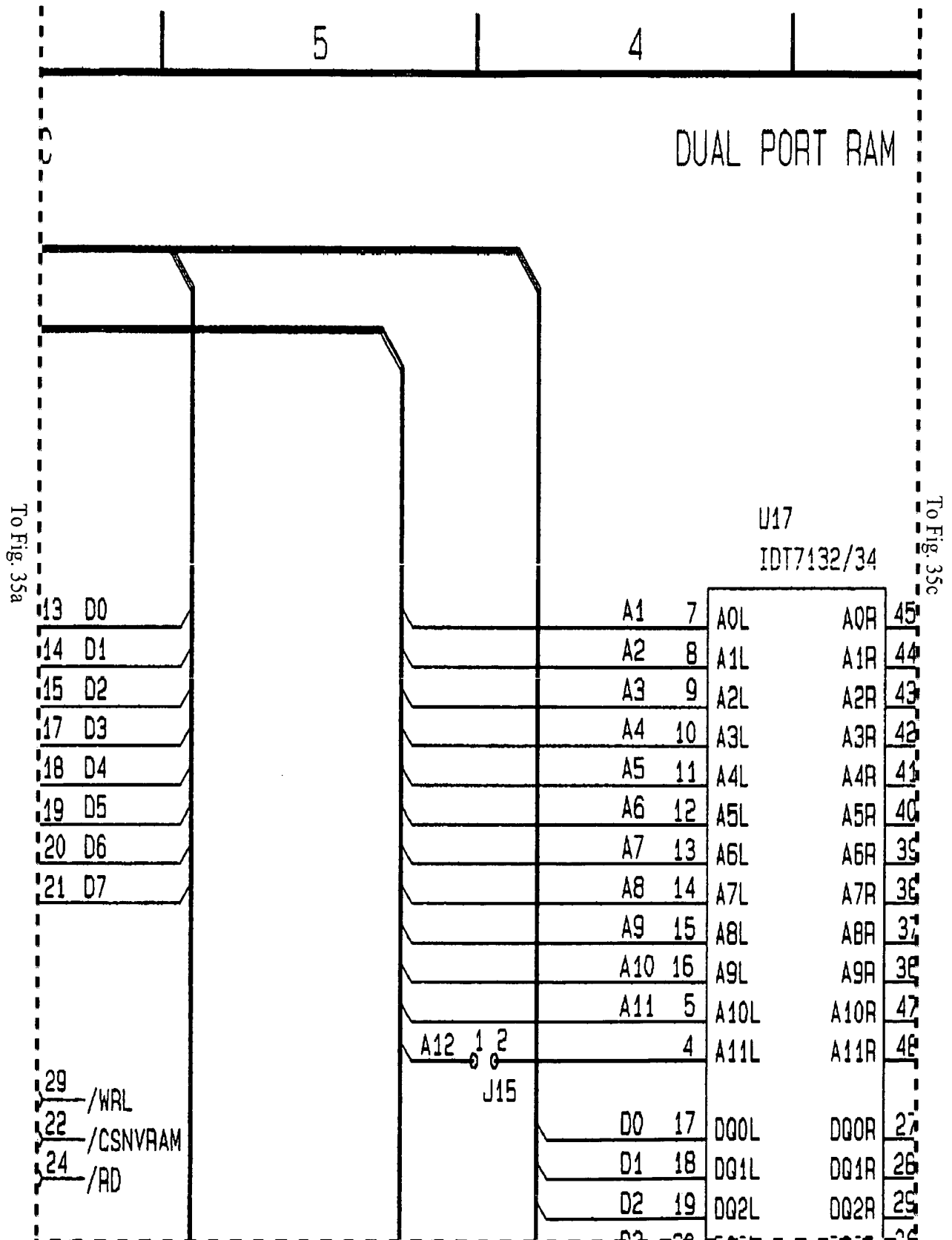
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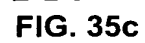
SHEET 4 OF 7



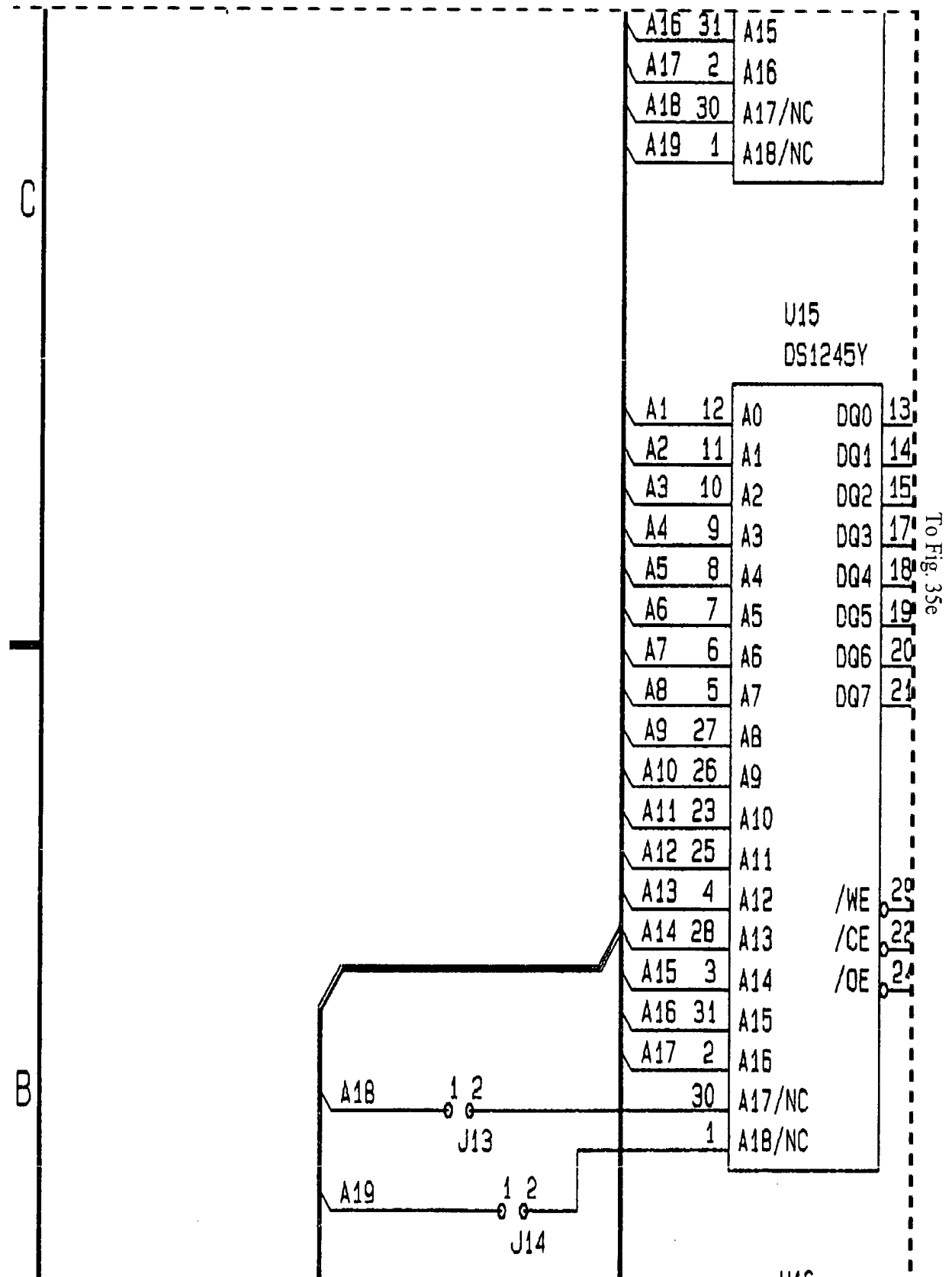


To Fig. 35e

FIG. 35b



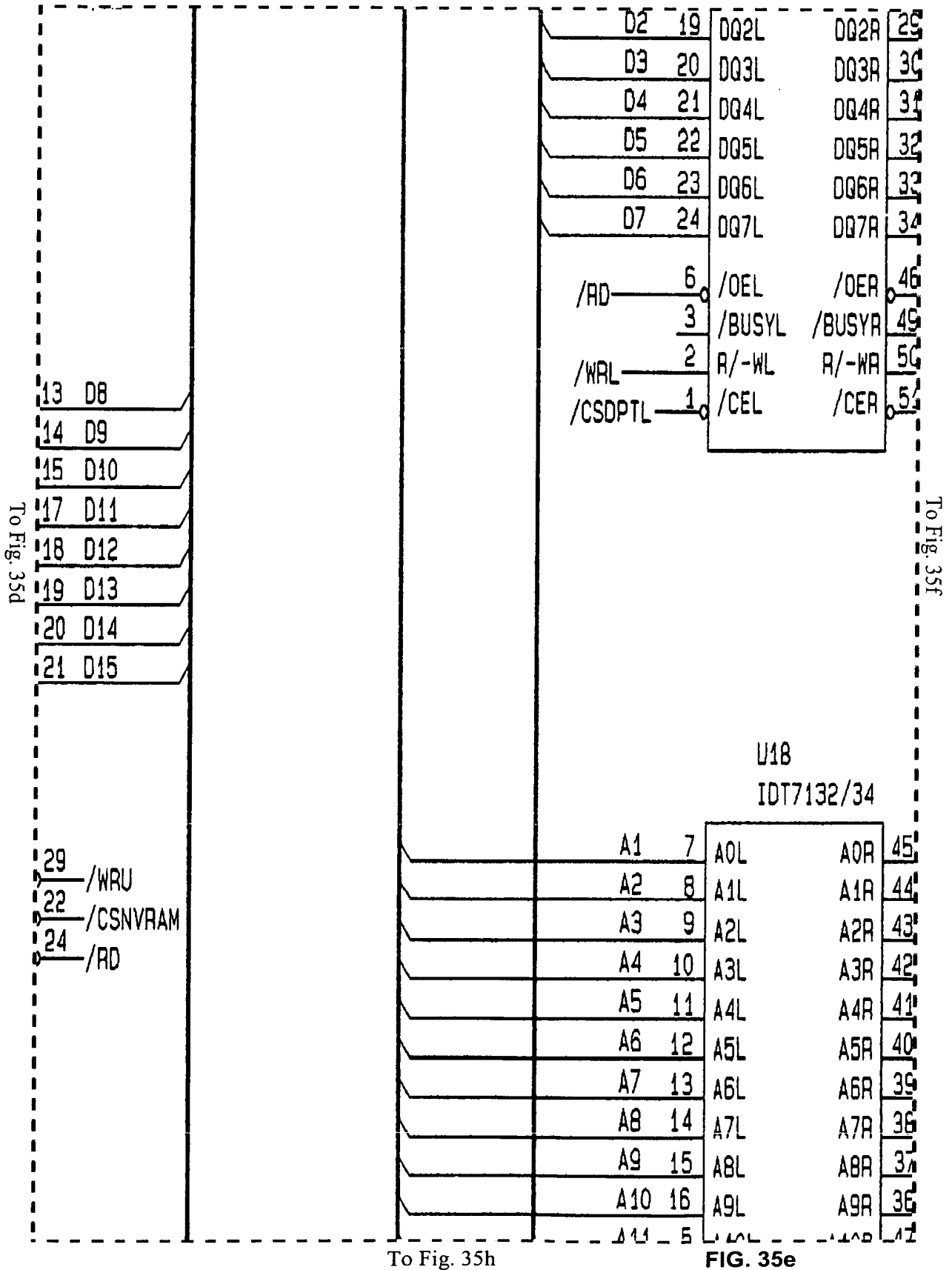
To Fig. 35a



To Fig. 35g

FIG. 35d

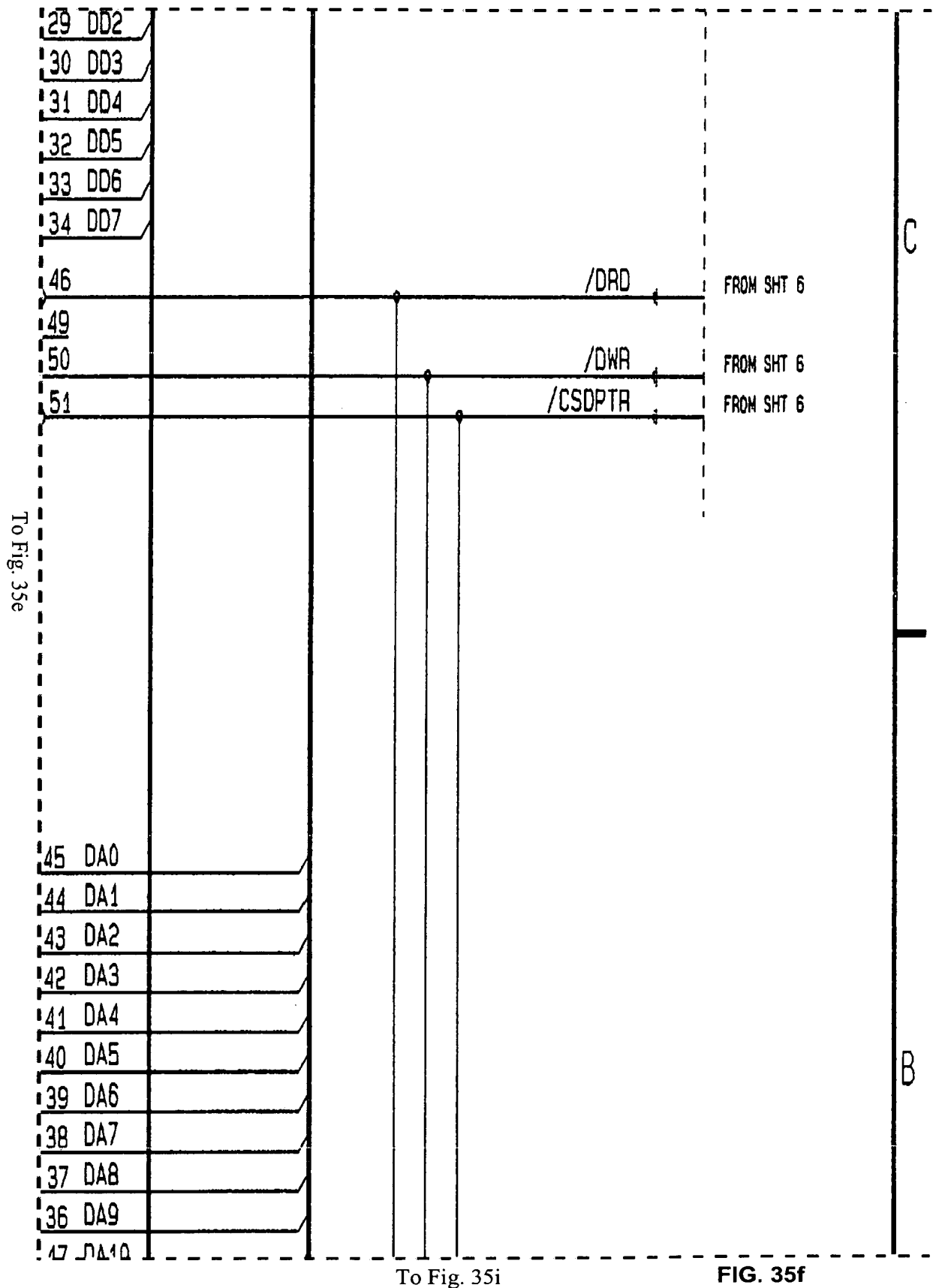
To Fig. 35b



To Fig. 35h

FIG. 35e

To Fig. 35c



To Fig. 35d

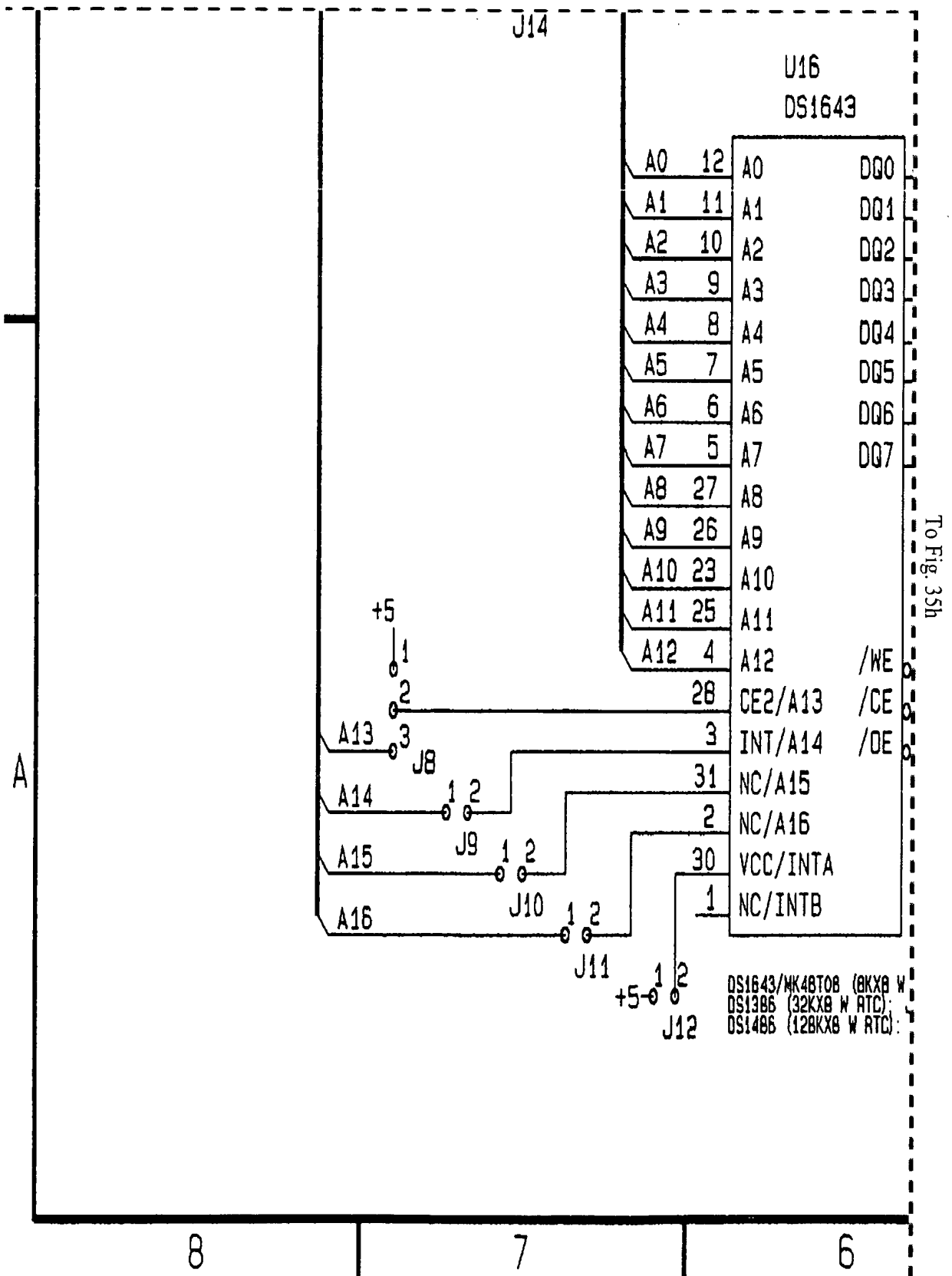
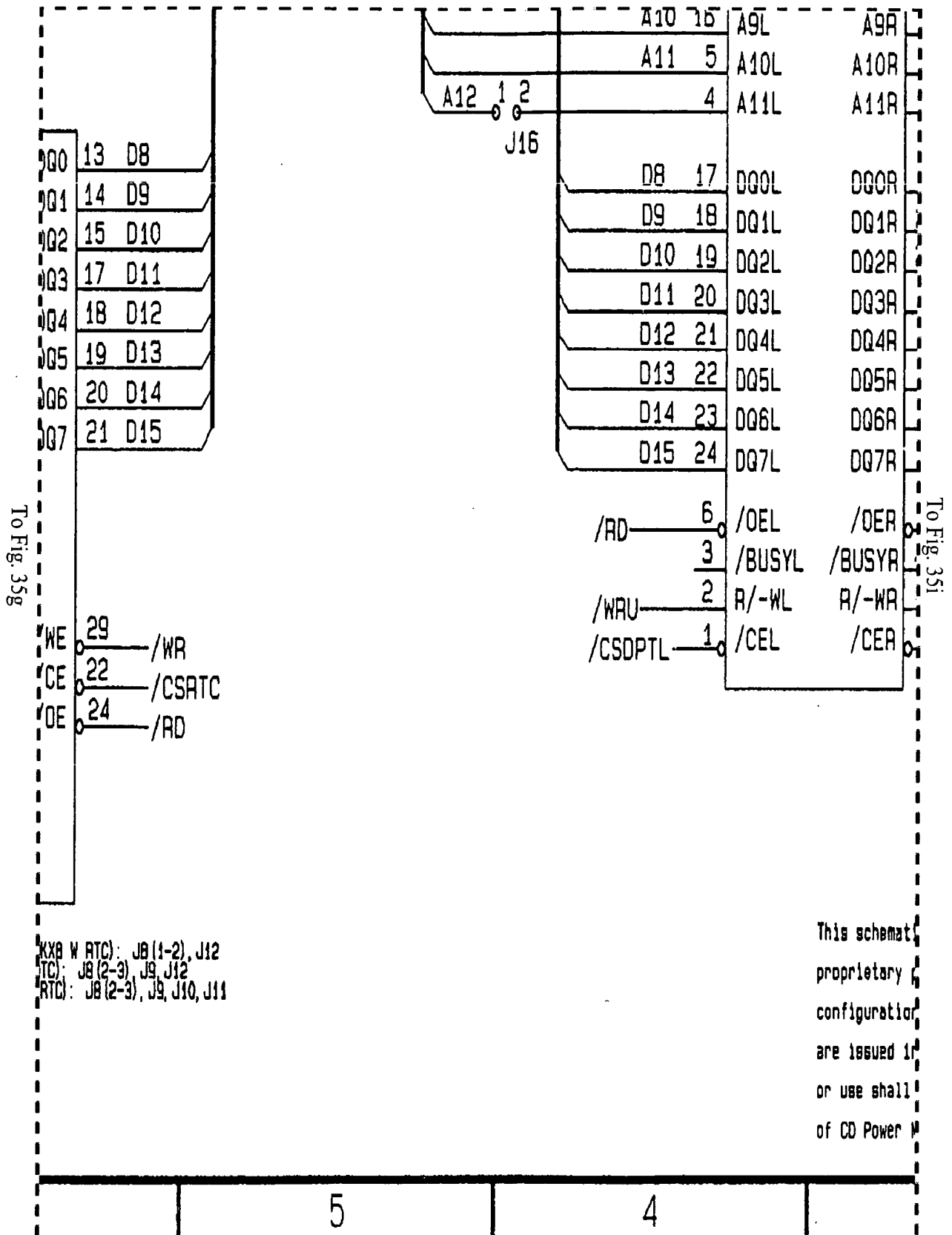


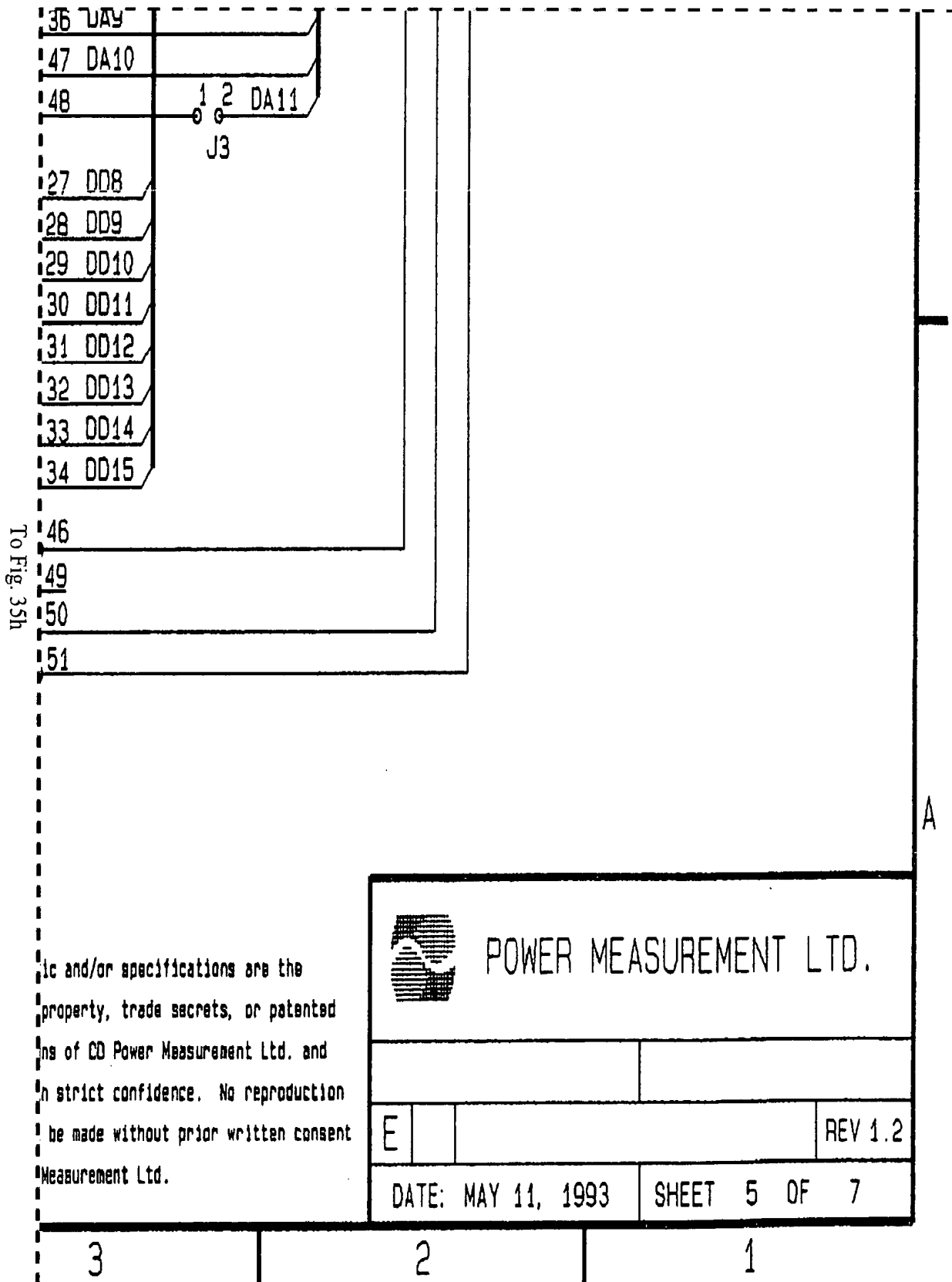
FIG. 35g

To Fig. 35e



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To Fig. 35f



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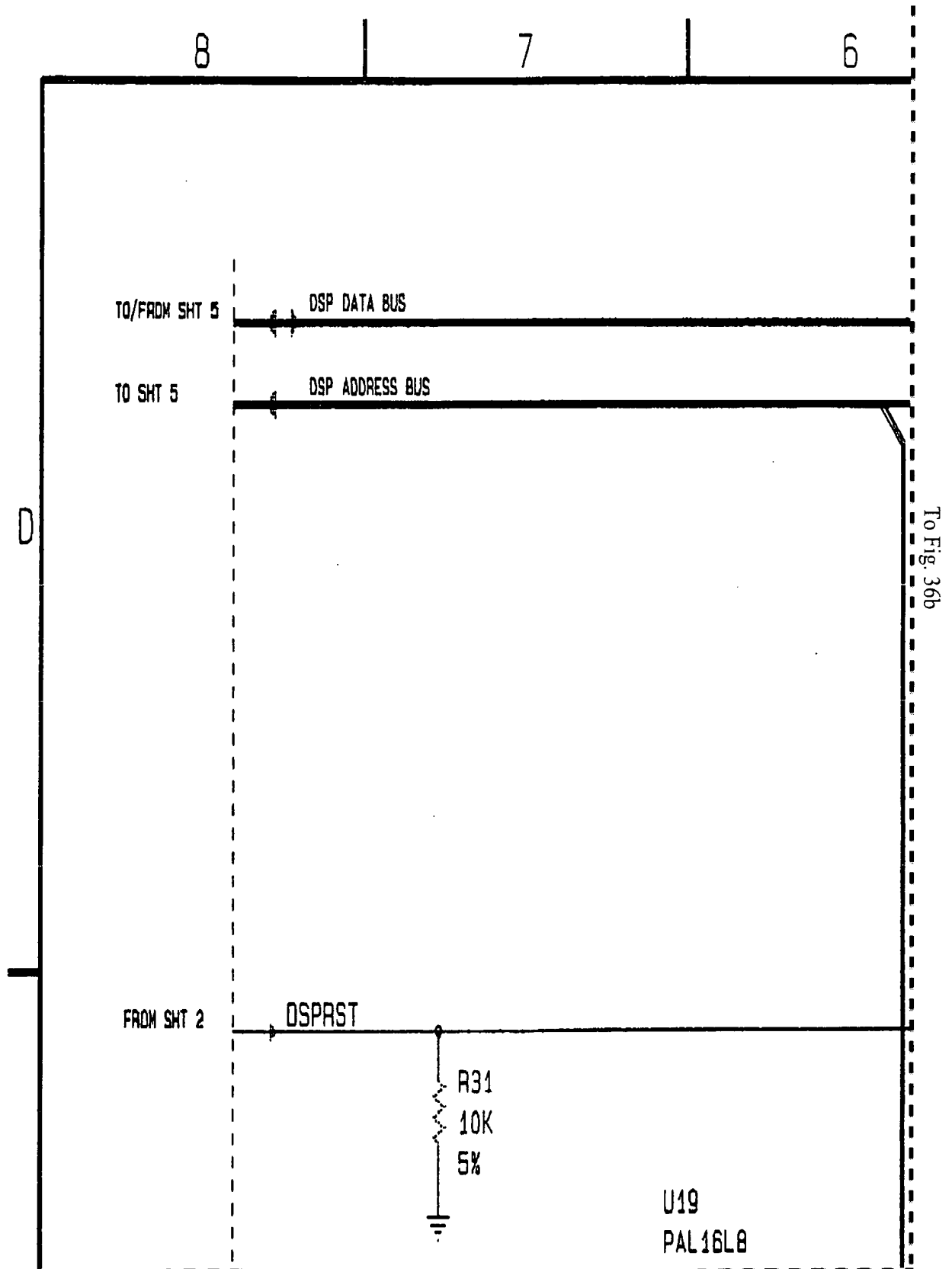
E

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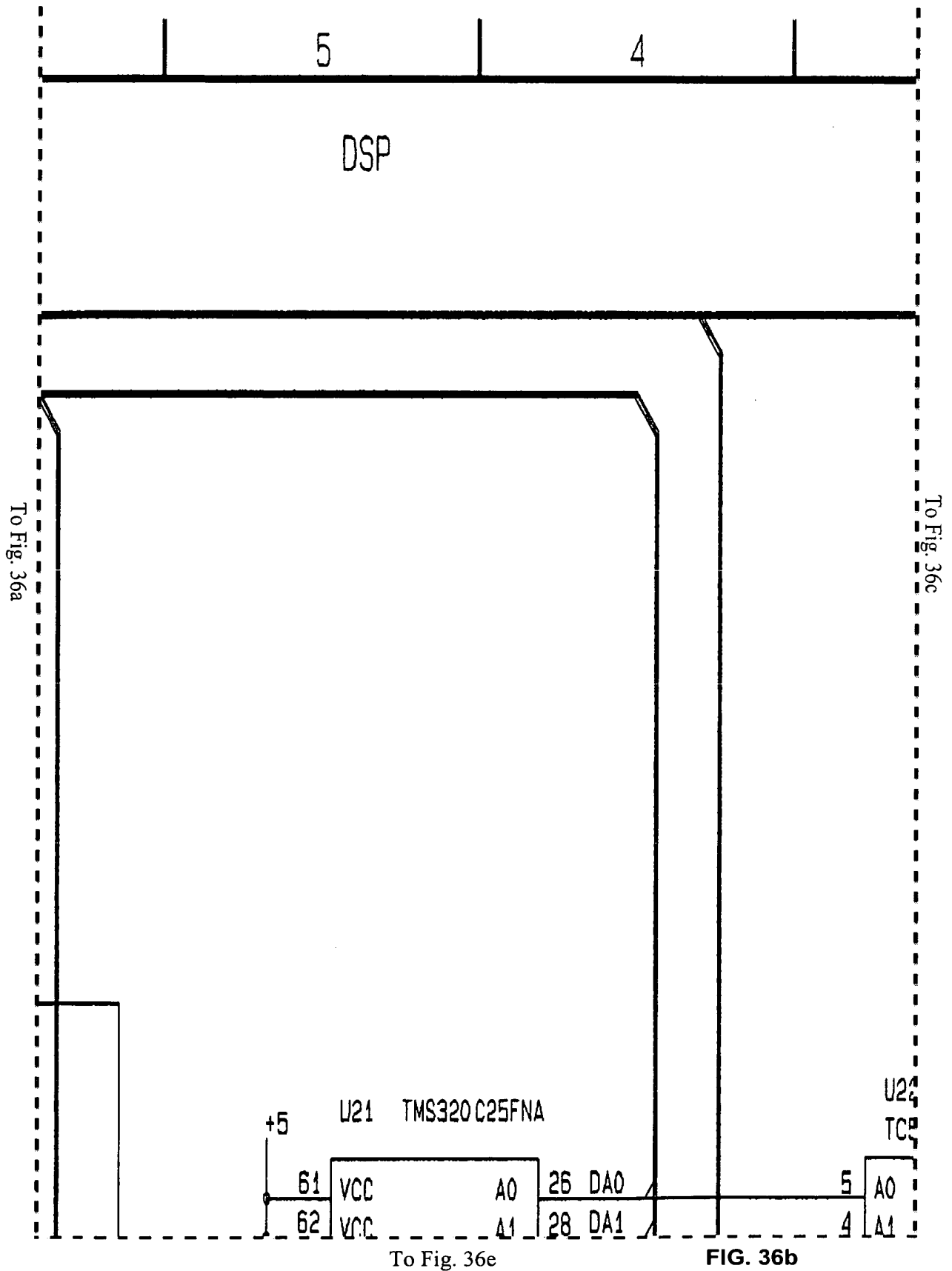
SHEET 5 OF 7

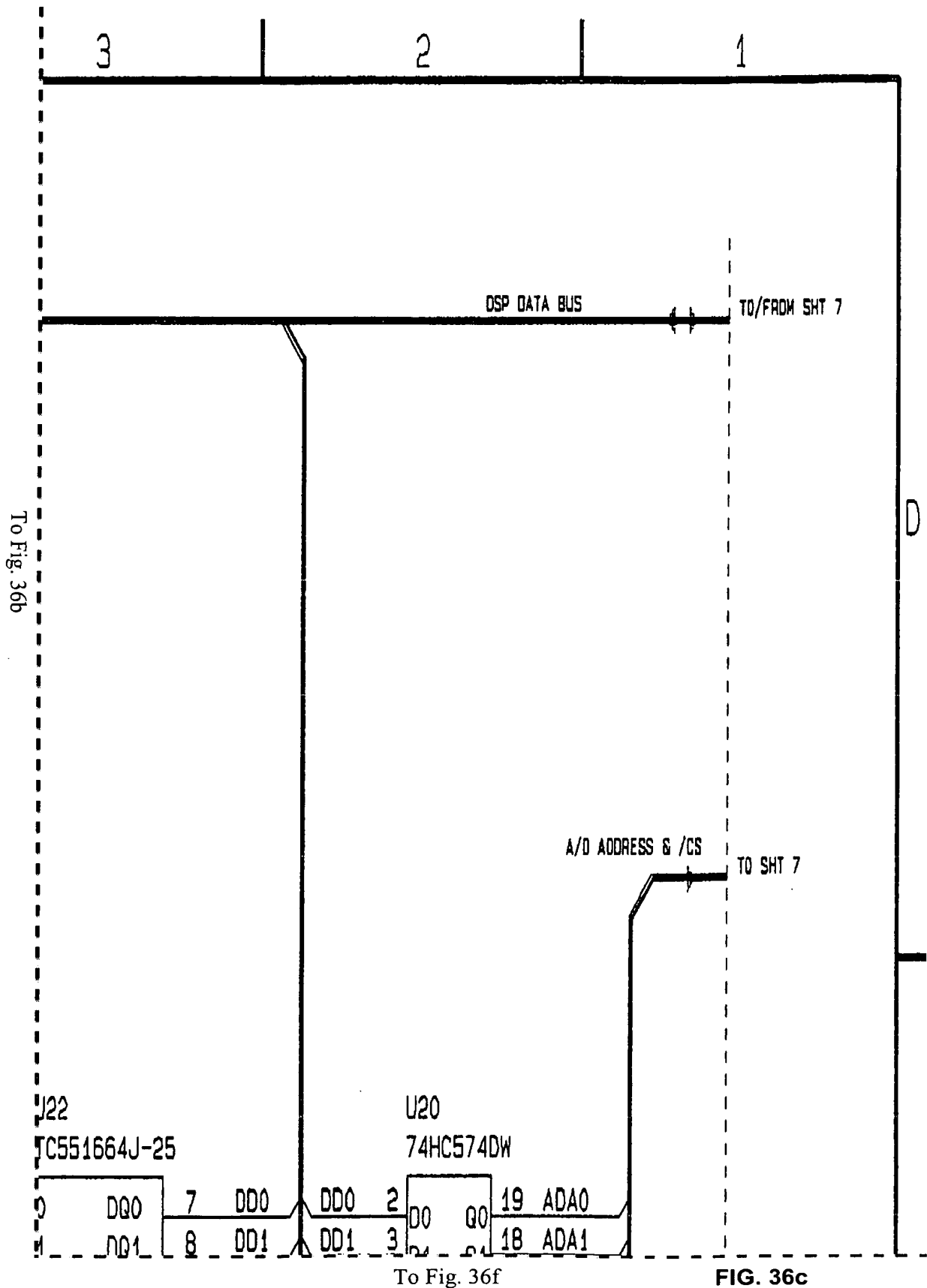
FIG. 35i



To Fig. 36d

FIG. 36a

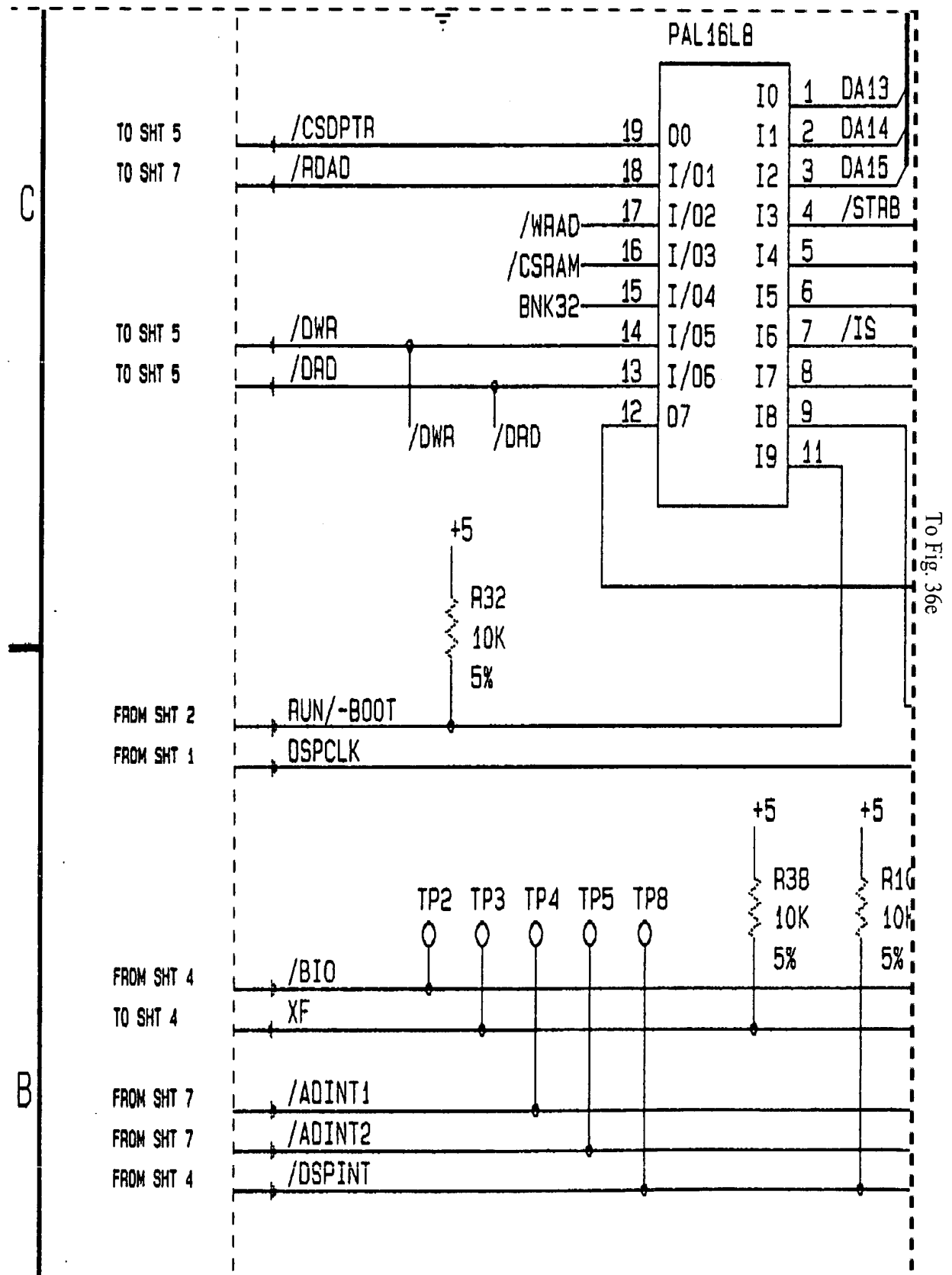




To Fig. 36f

FIG. 36c

To Fig. 36a

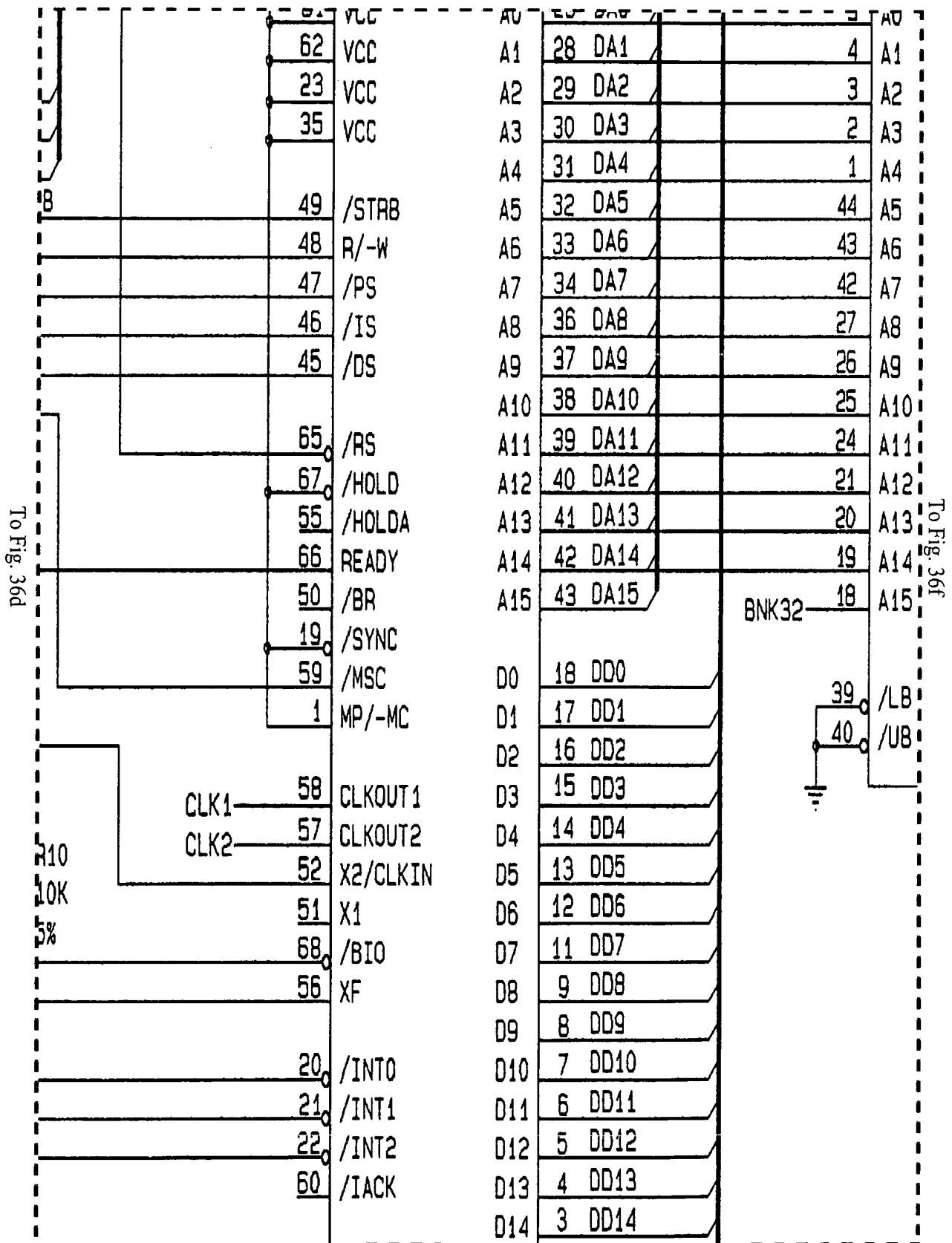


To Fig. 36e

To Fig. 36g

FIG. 36d

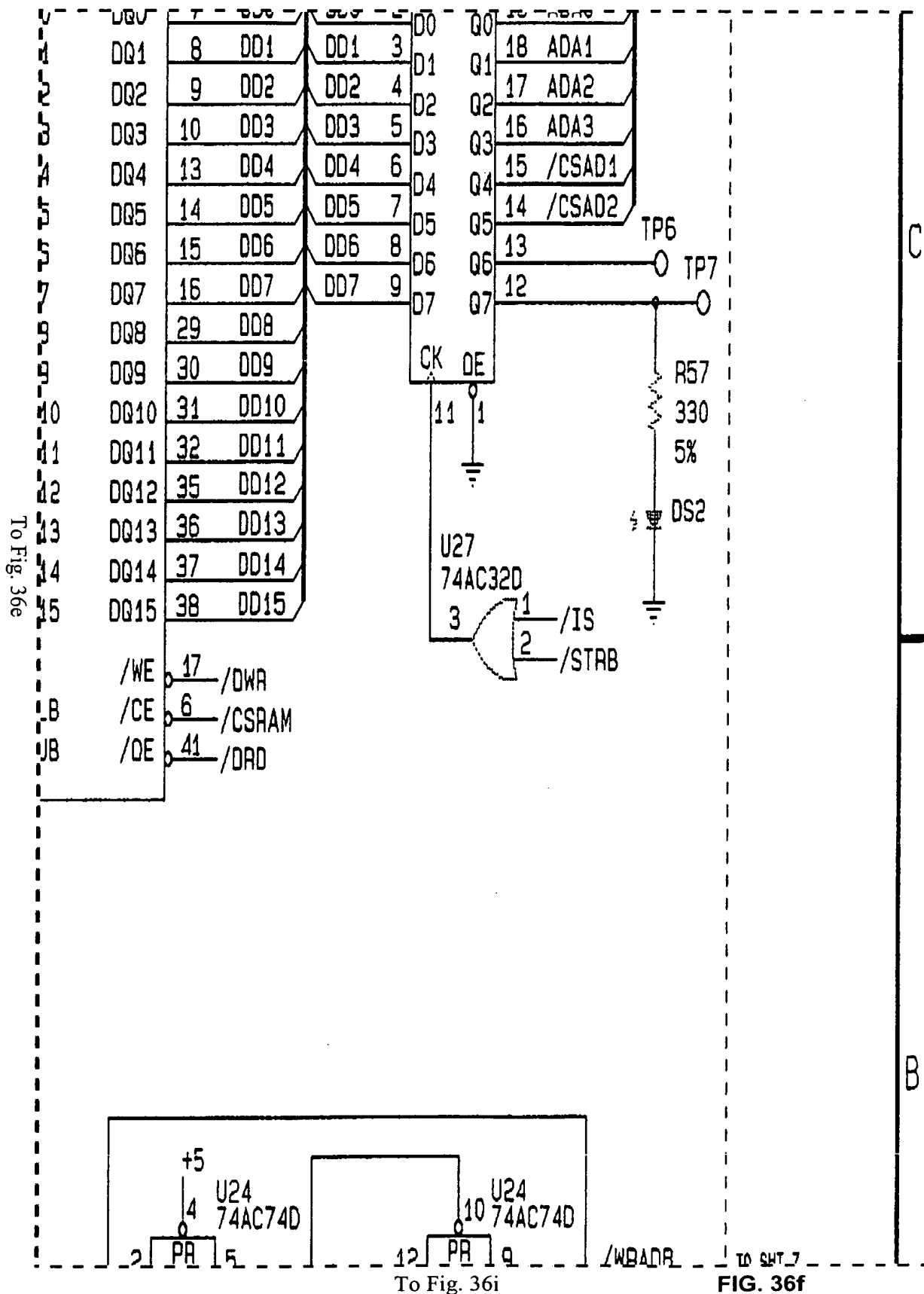
To Fig. 36b



To Fig. 36h

FIG. 36e

To Fig. 36c



To Fig. 36i

FIG. 36f

To Fig. 36d

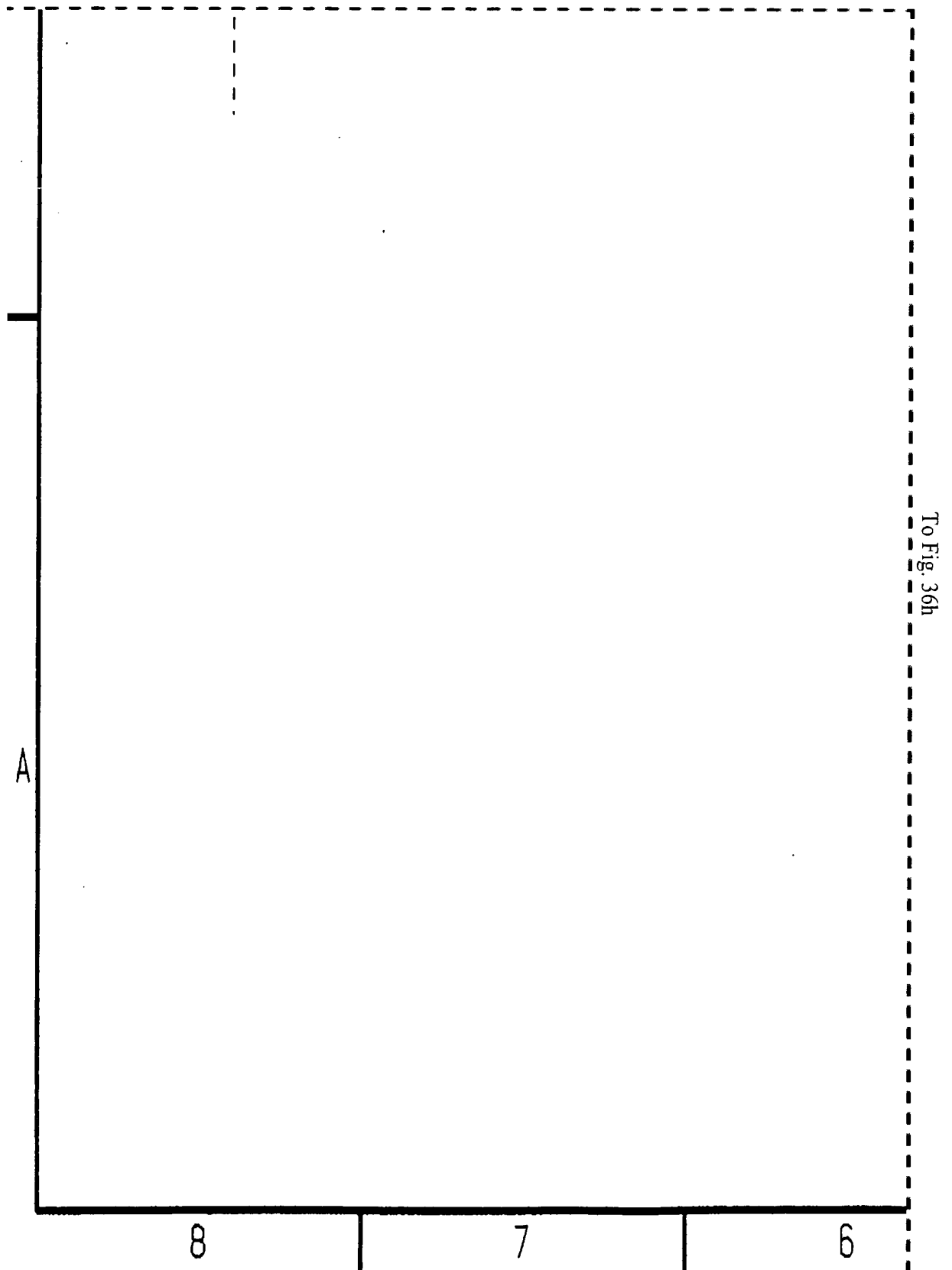
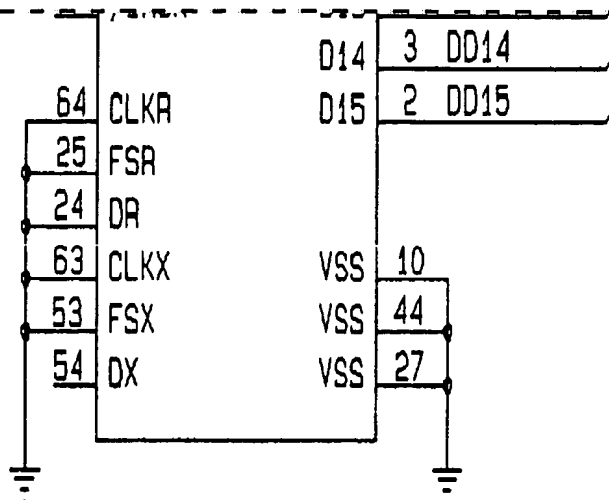


FIG. 36g

To Fig. 36e



To Fig. 36g

To Fig. 36i

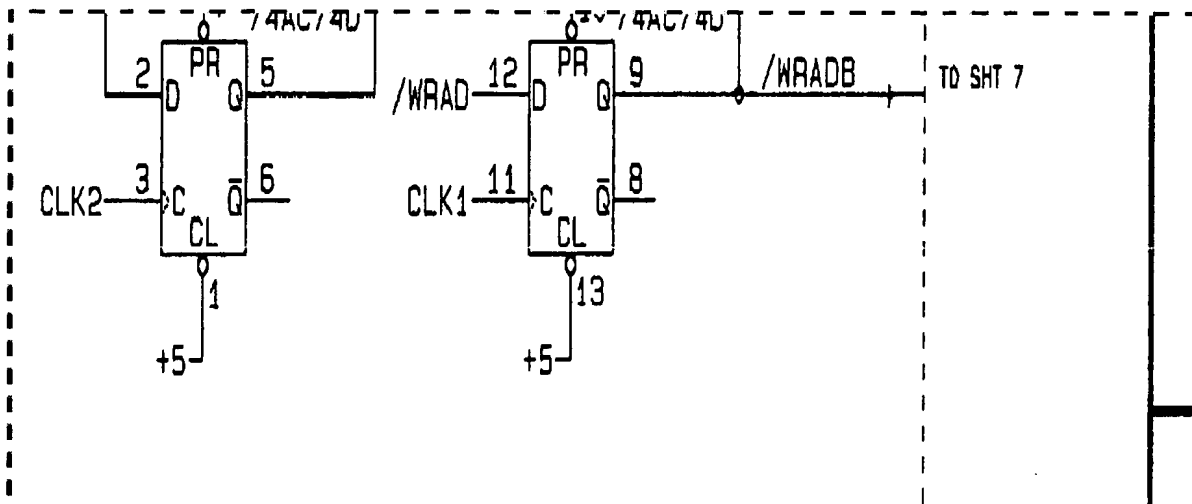
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FIG. 36h

To Fig. 36f



To Fig. 36h

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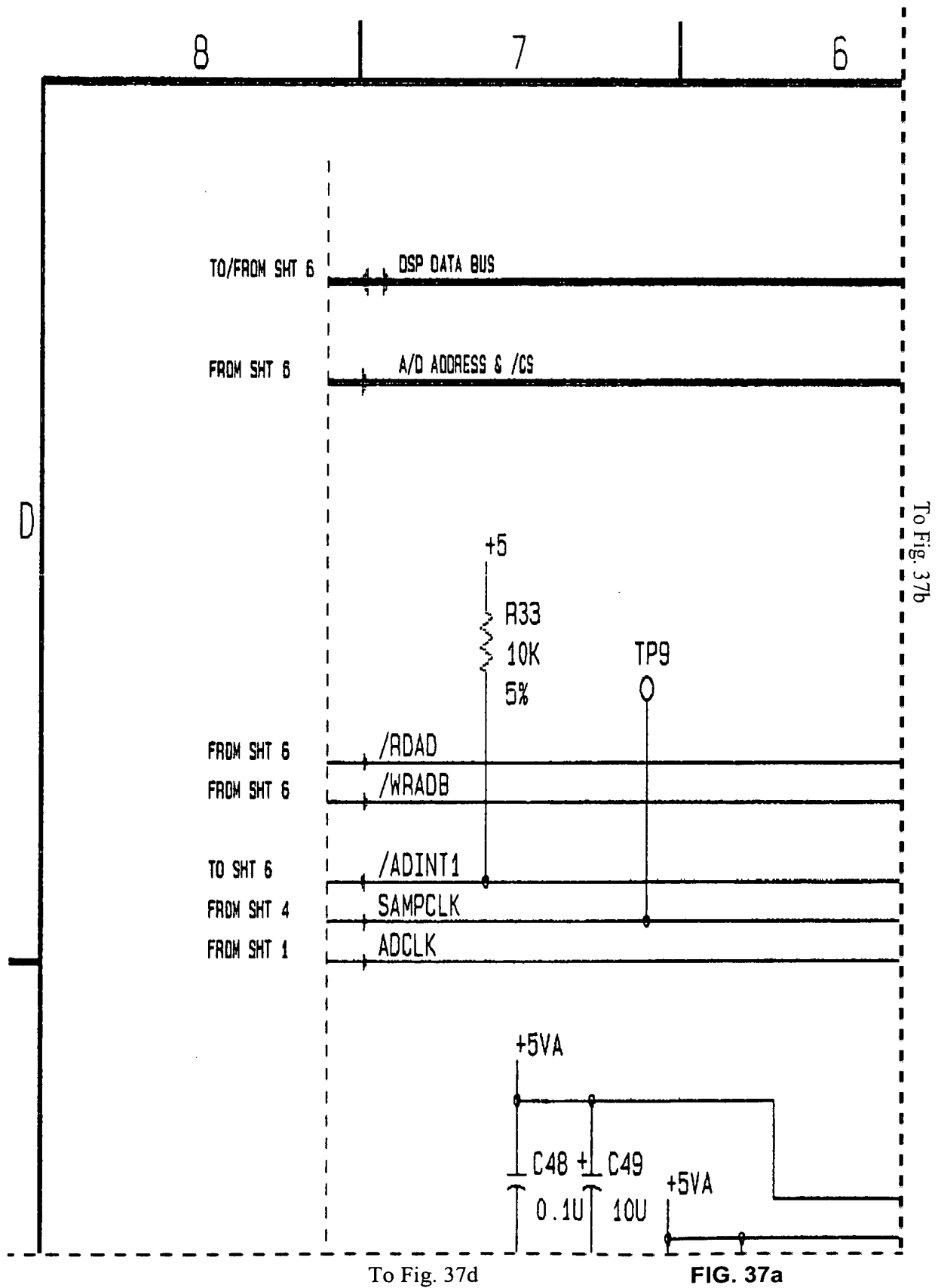
SHEET 6 OF 7

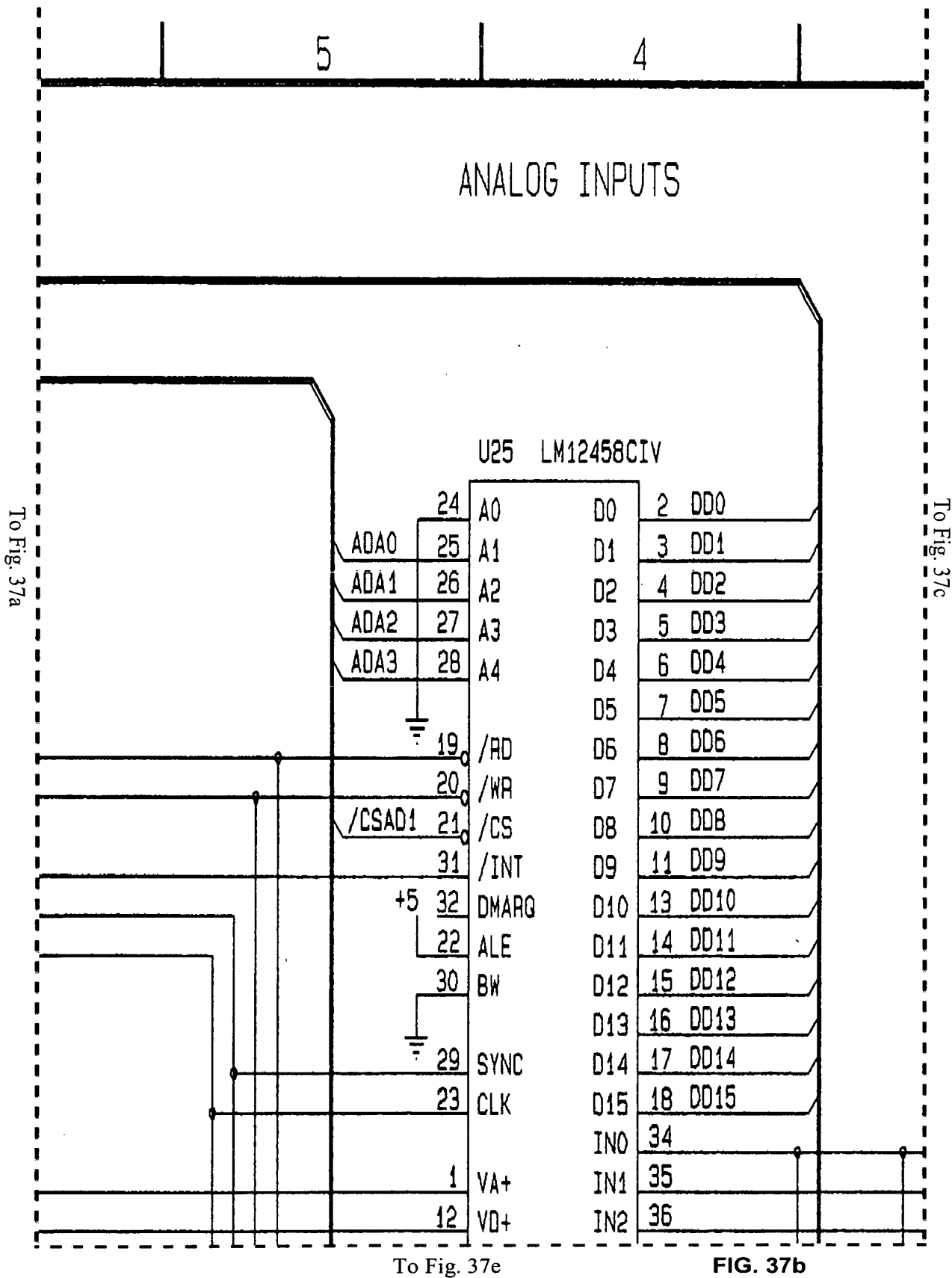
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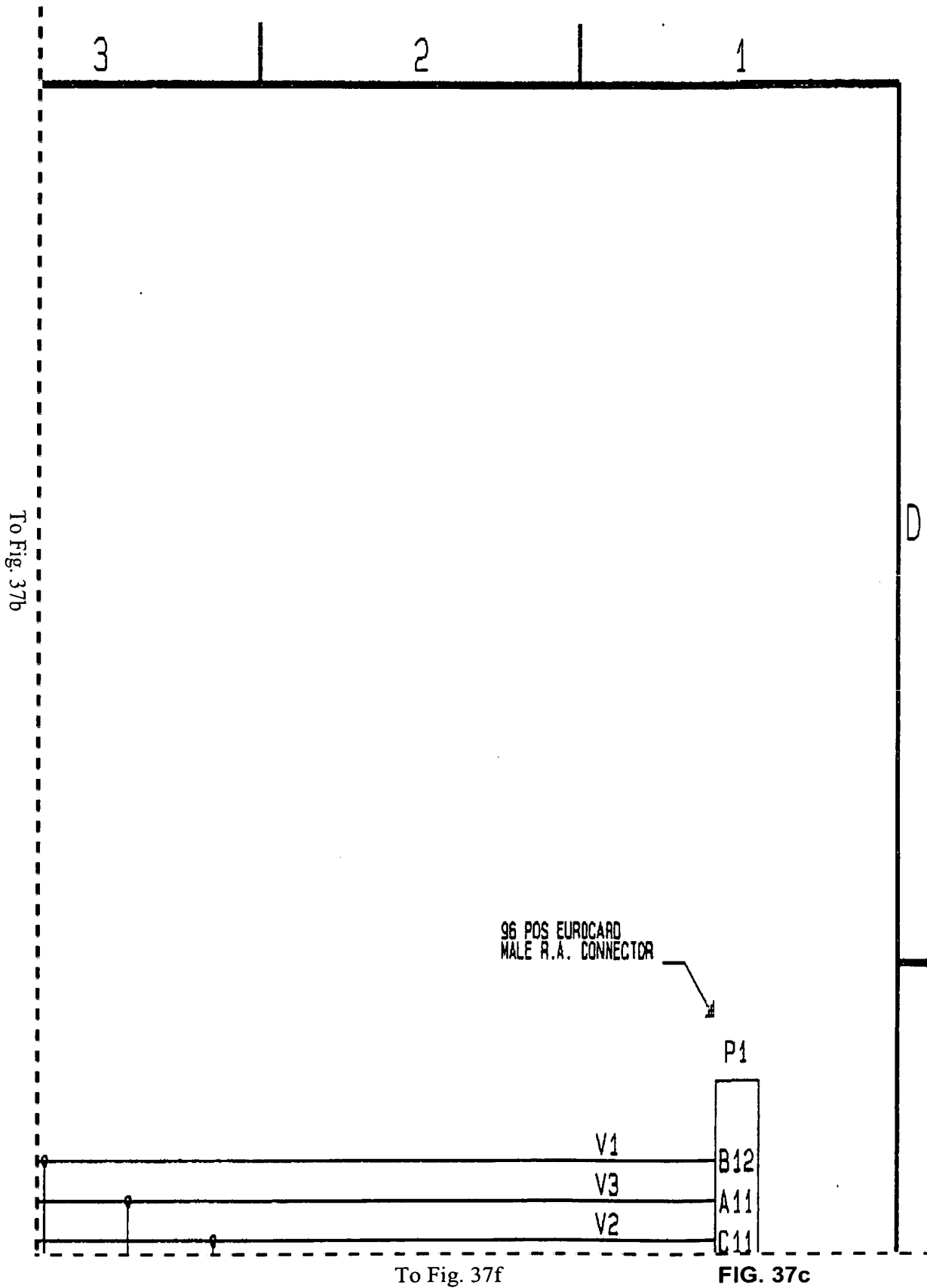
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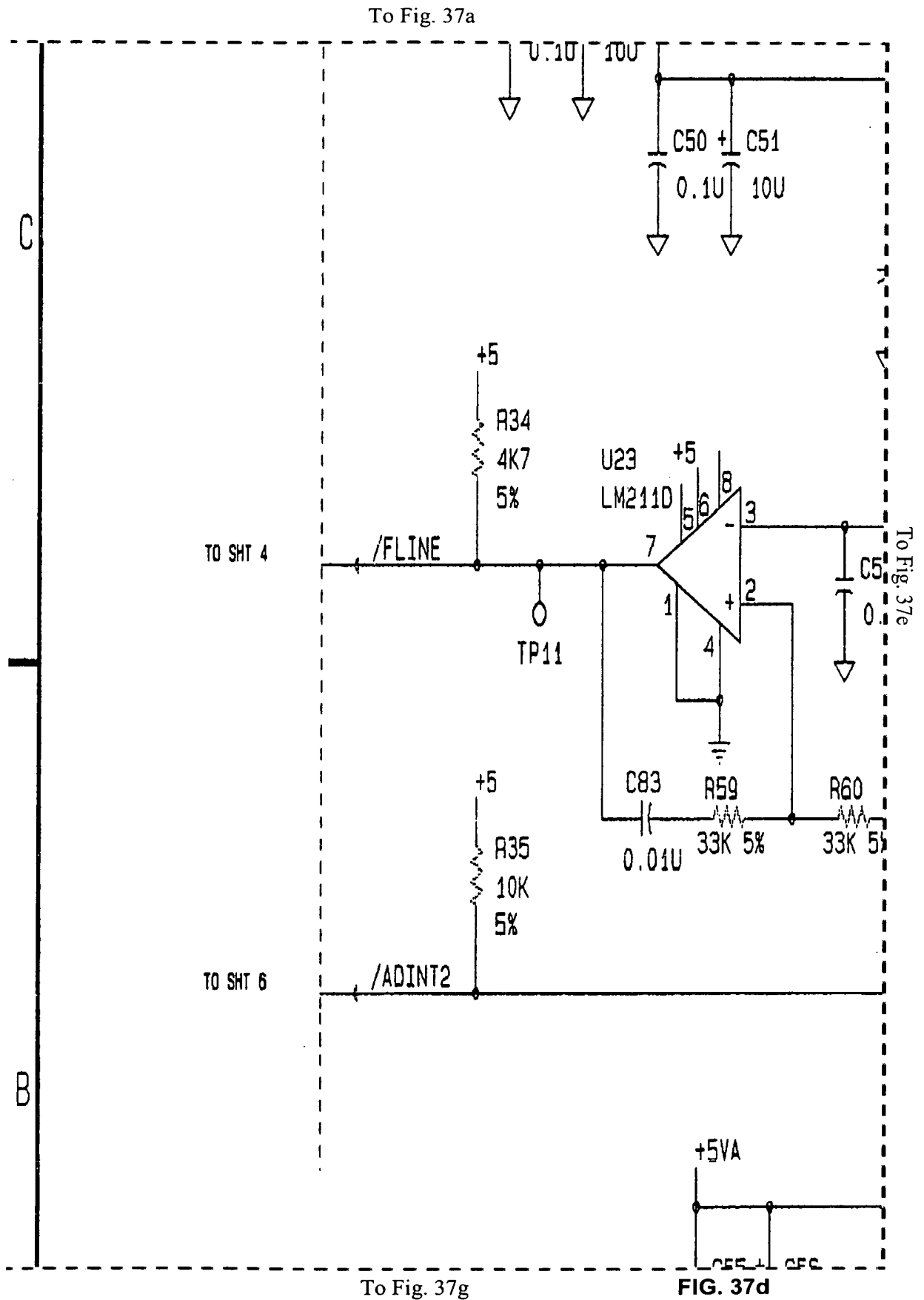
1

FIG. 36i

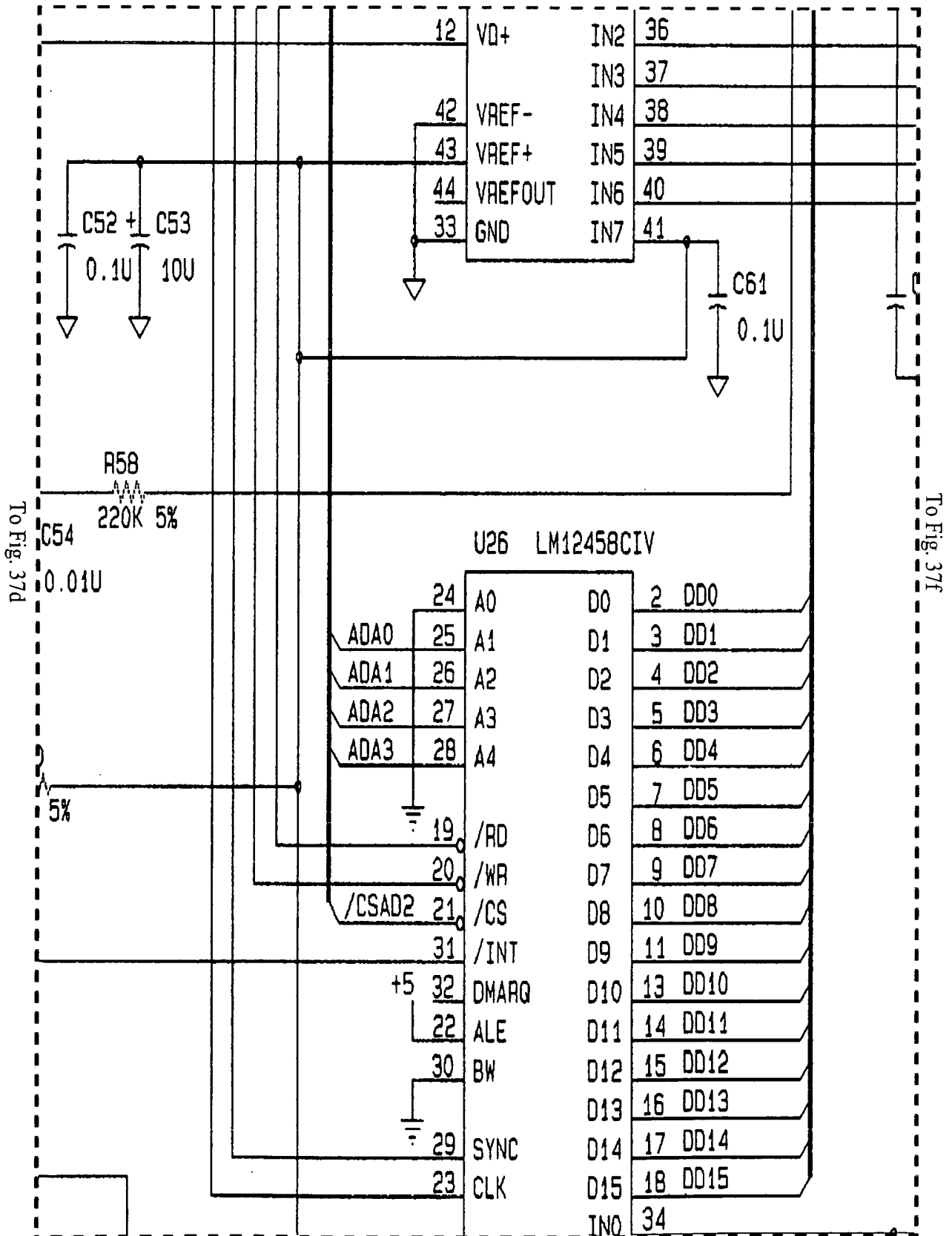








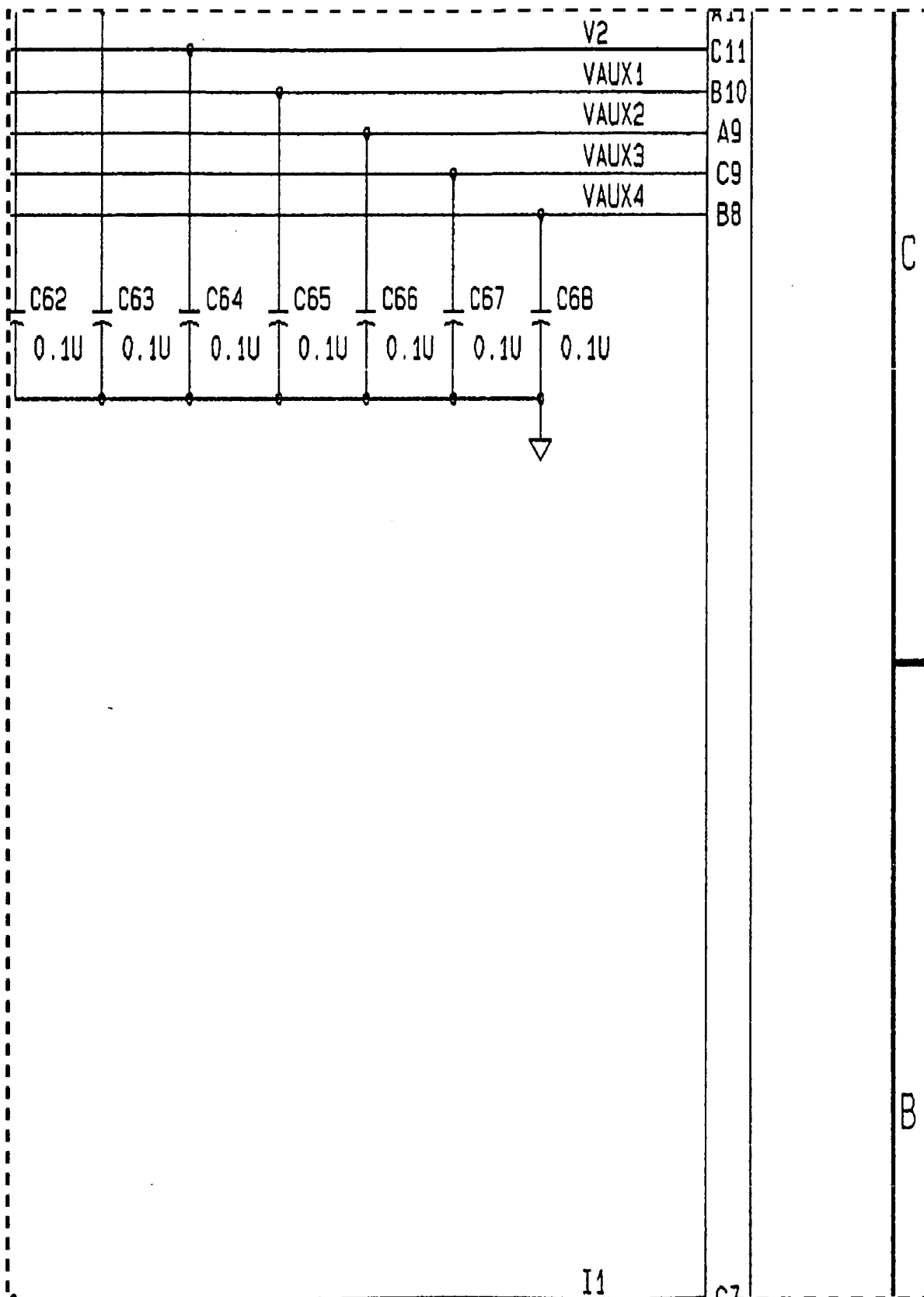
To Fig. 37b



To Fig. 37h

FIG. 37e

To Fig. 37c



To Fig. 37e

To Fig. 37i

FIG. 37f

To Fig. 37d

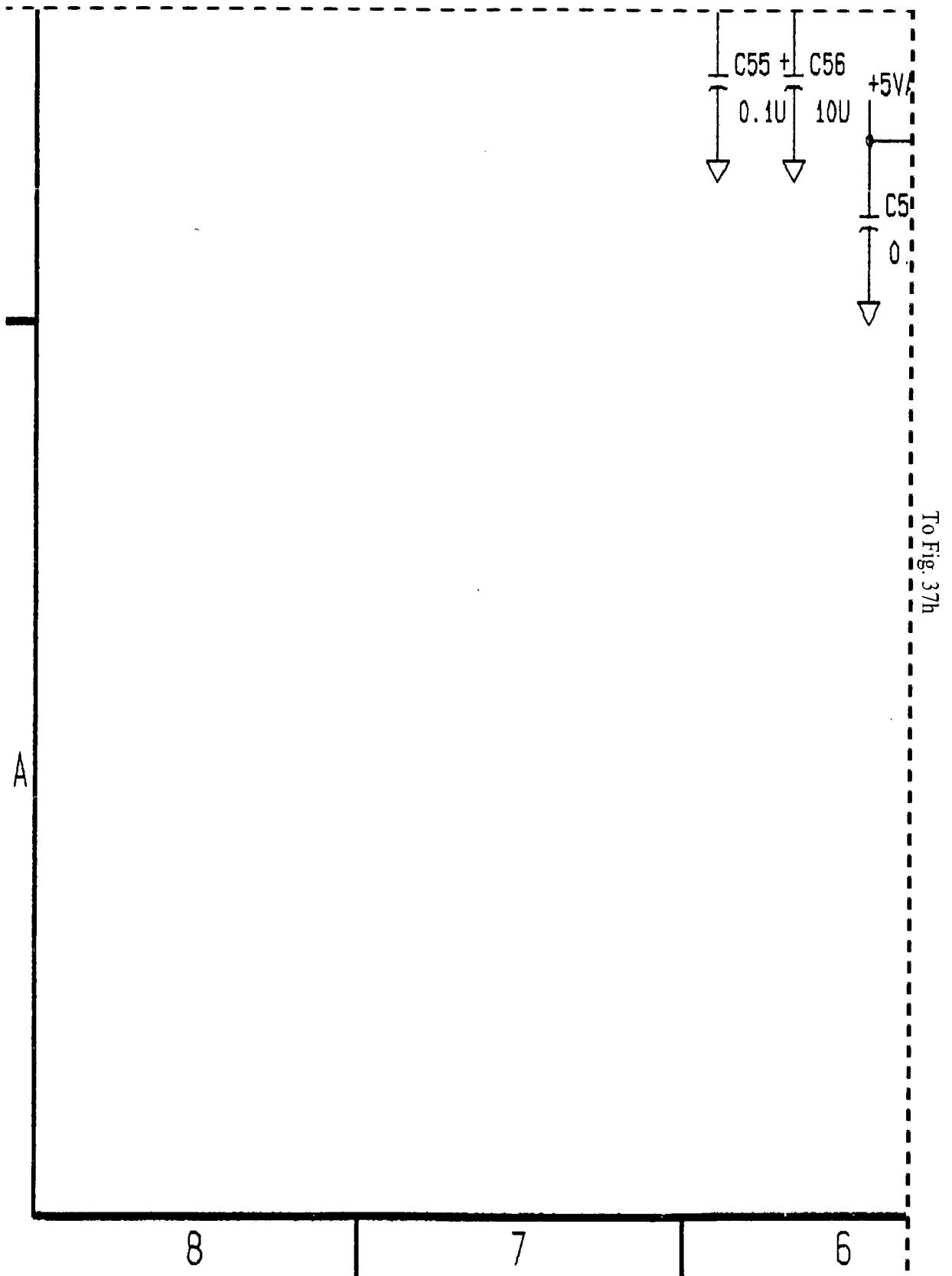
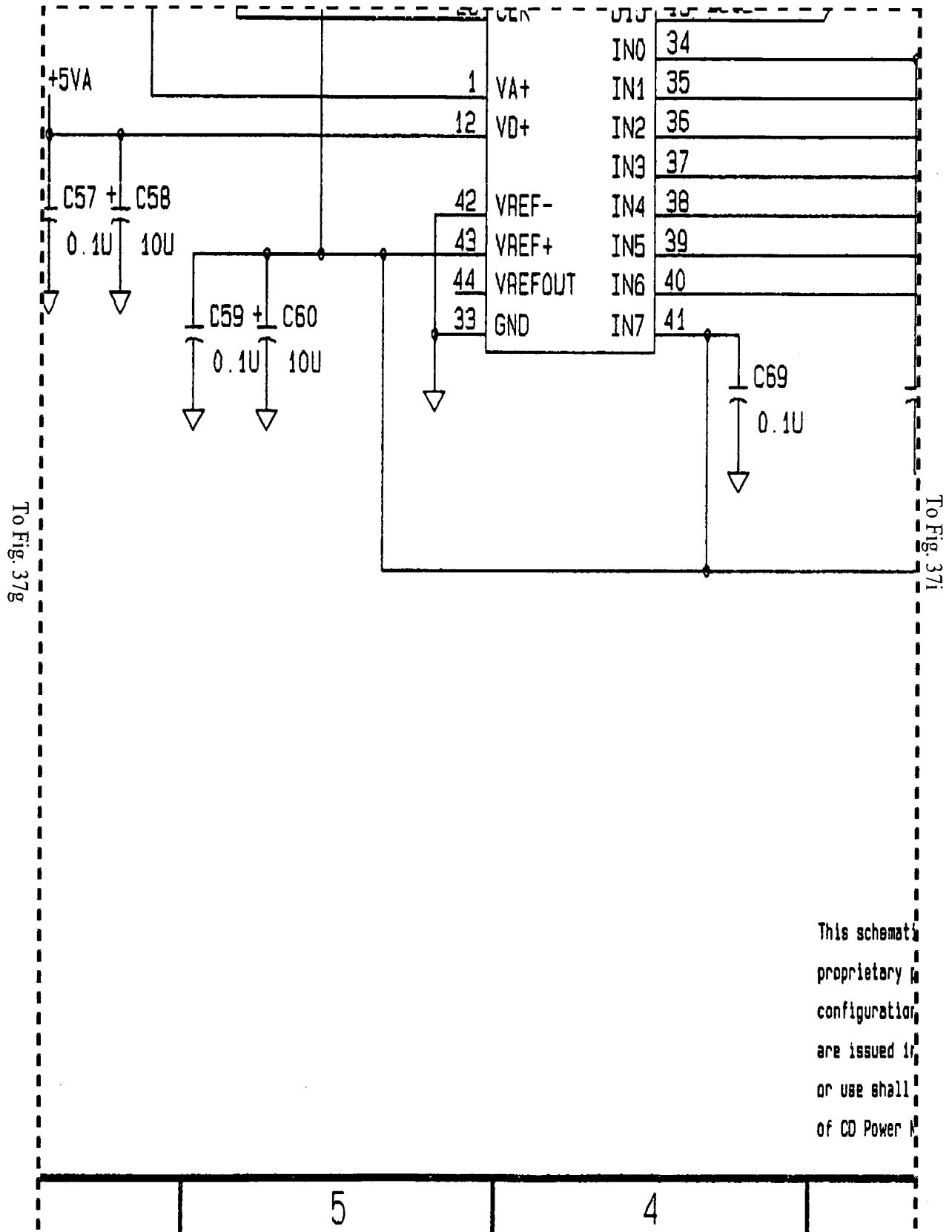


FIG. 37g

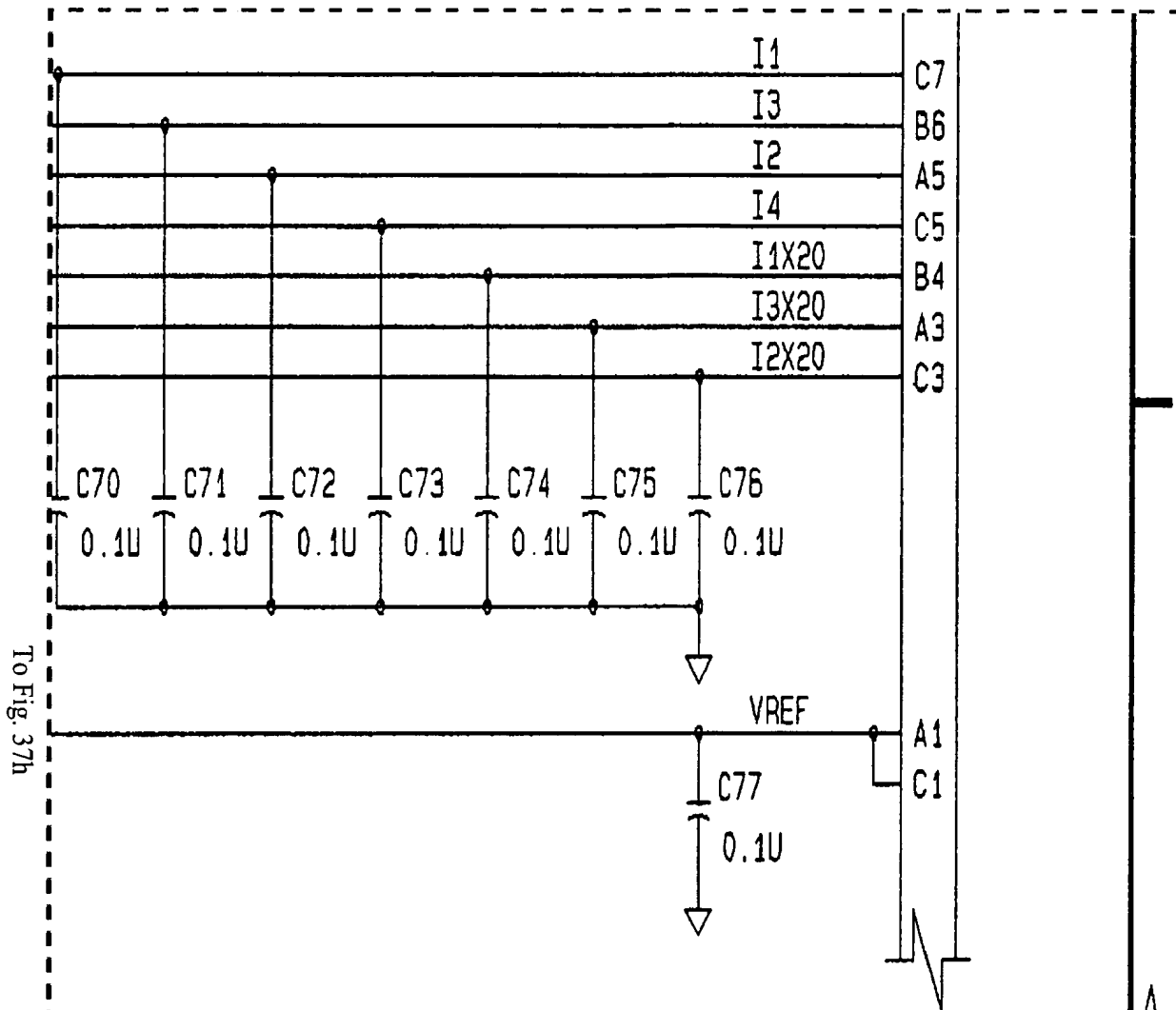
To Fig. 37e



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FIG. 37h

To Fig. 37f



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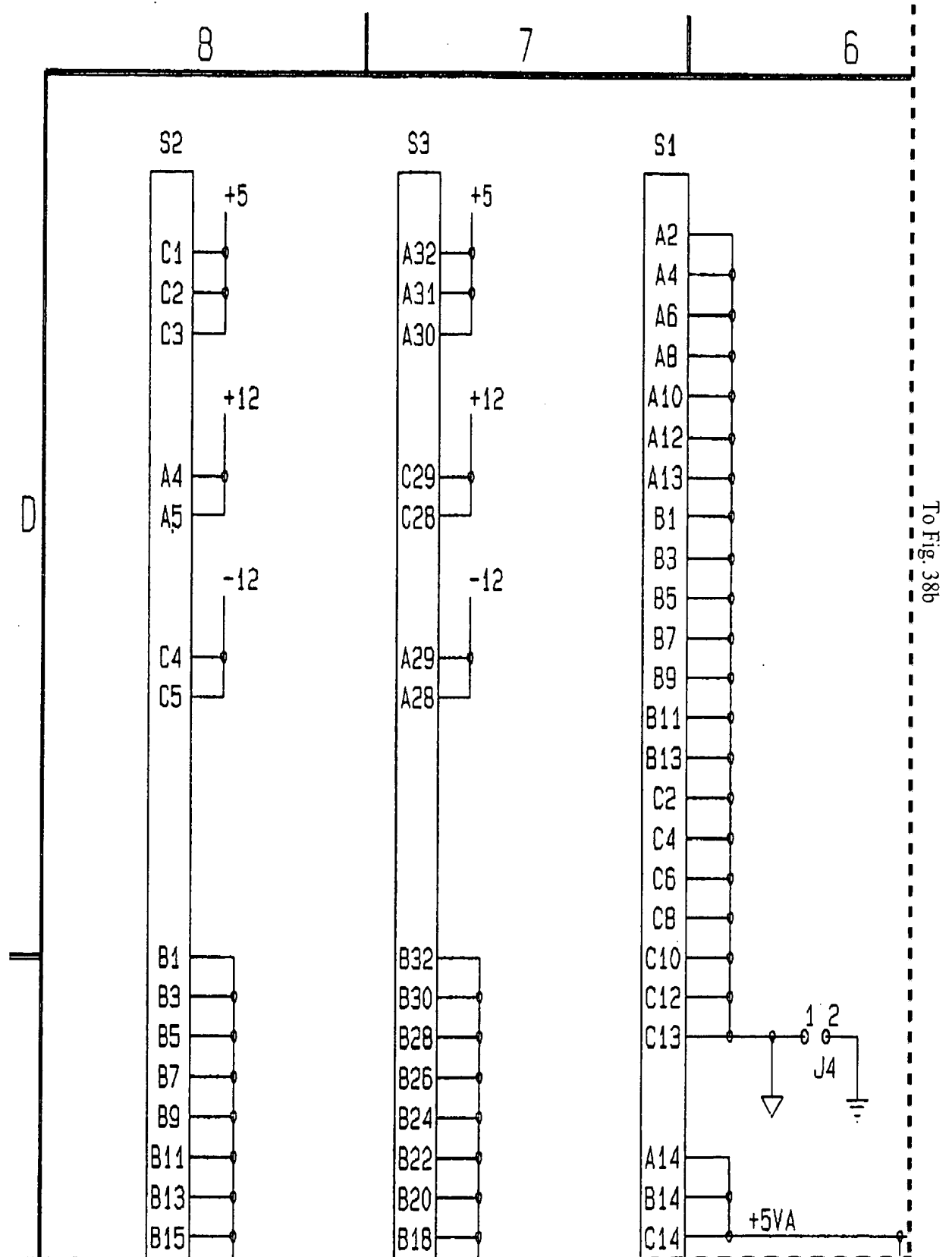
SHEET 7 OF 7

3

2

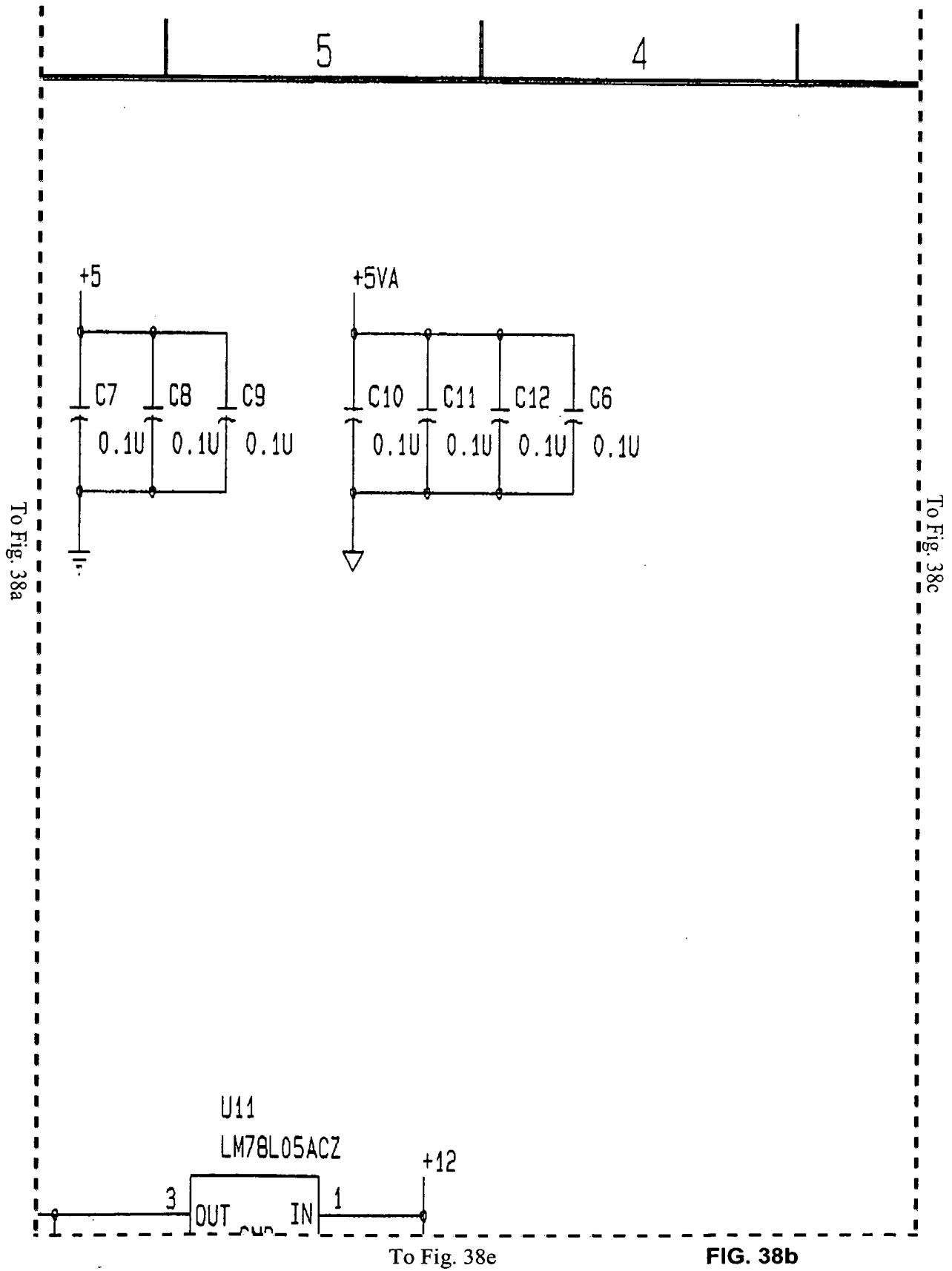
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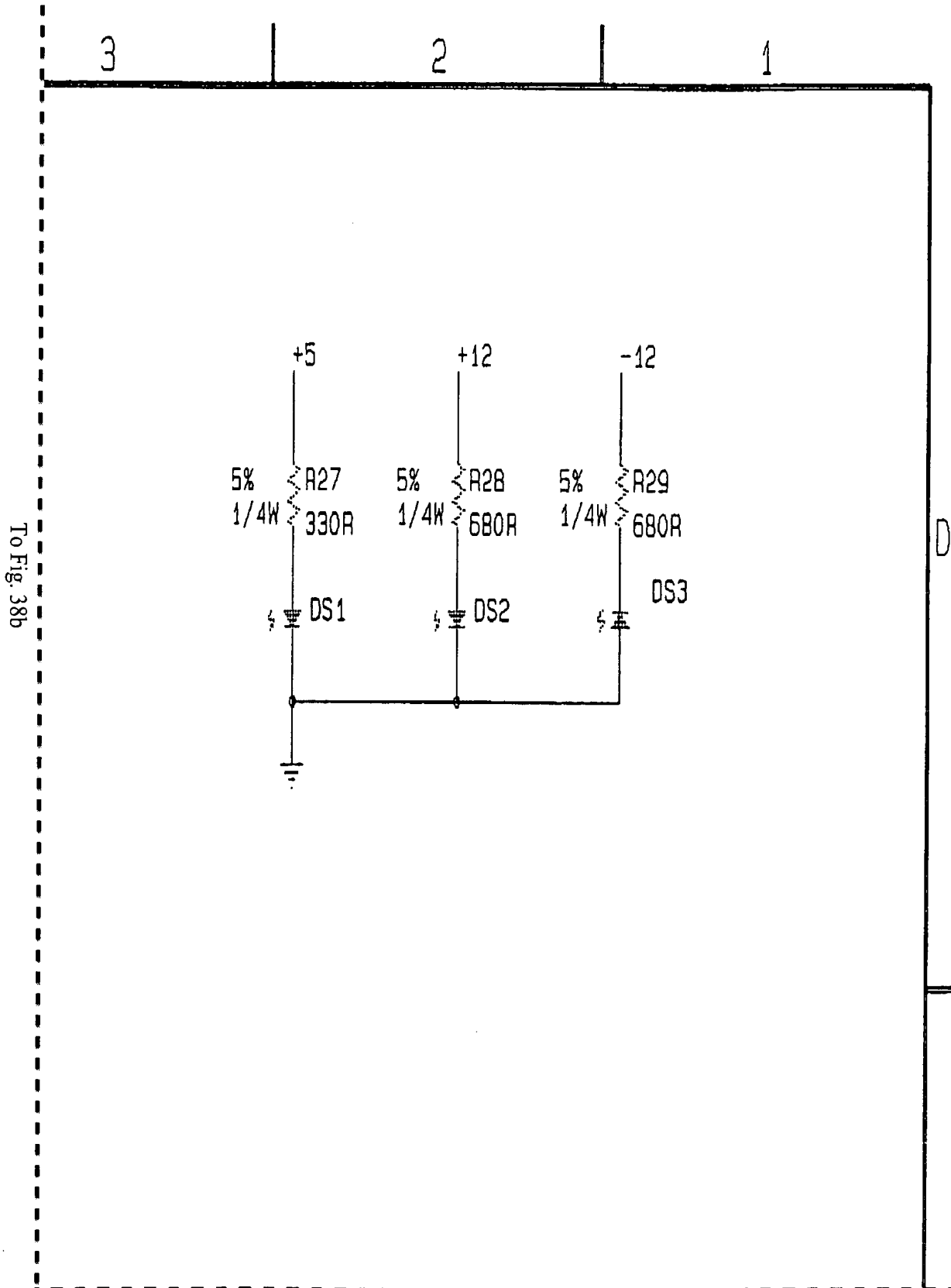
FIG. 37i



To Fig. 38d

FIG. 38a



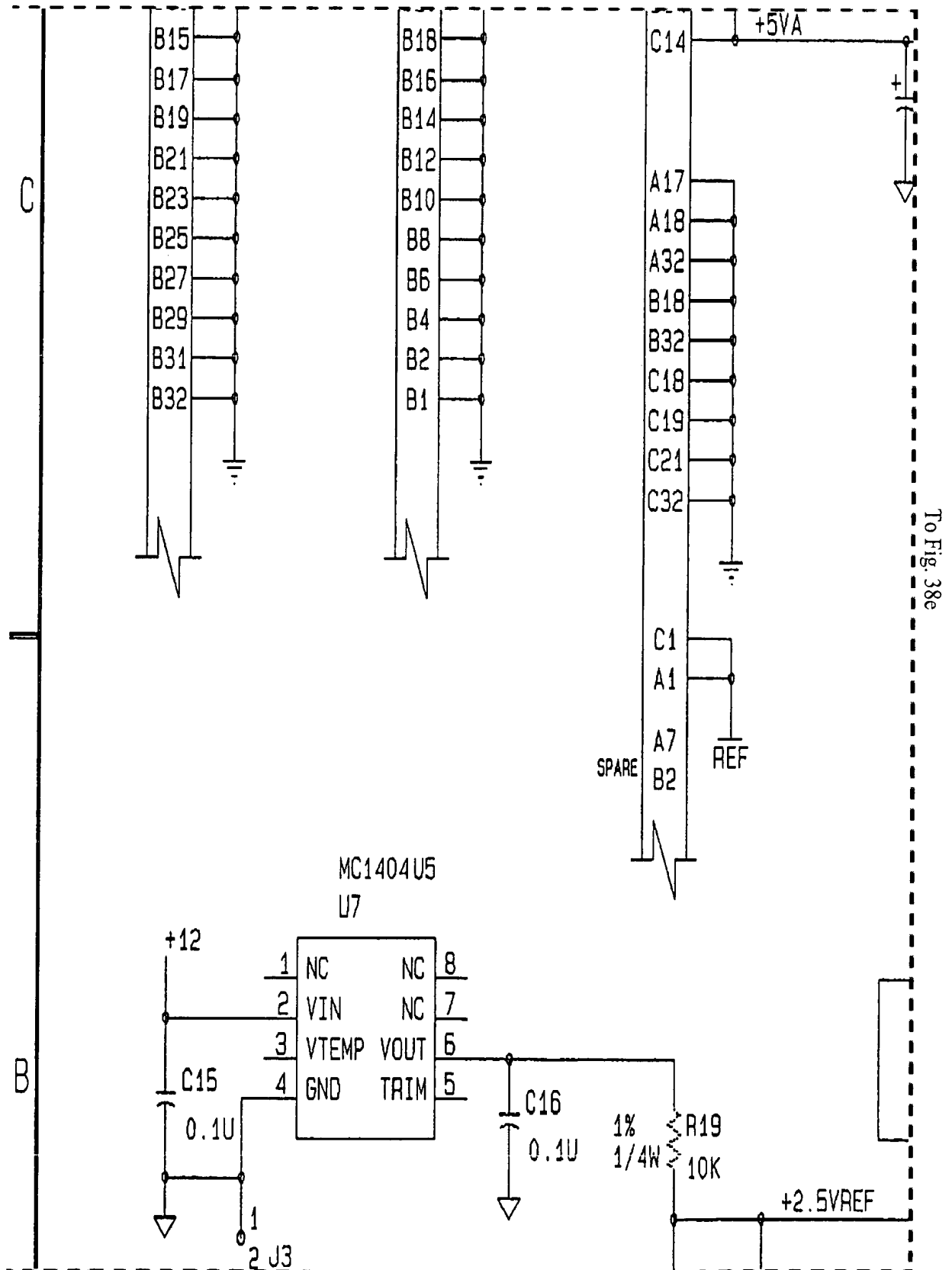


To Fig. 38b

To Fig. 38f

FIG. 38c

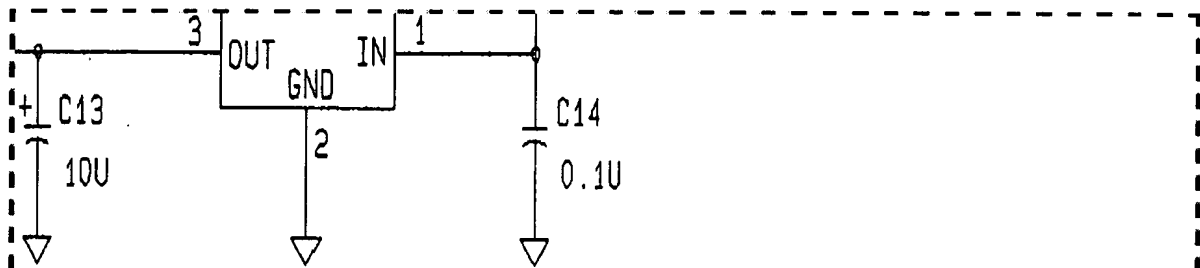
To Fig. 38a



To Fig. 38g

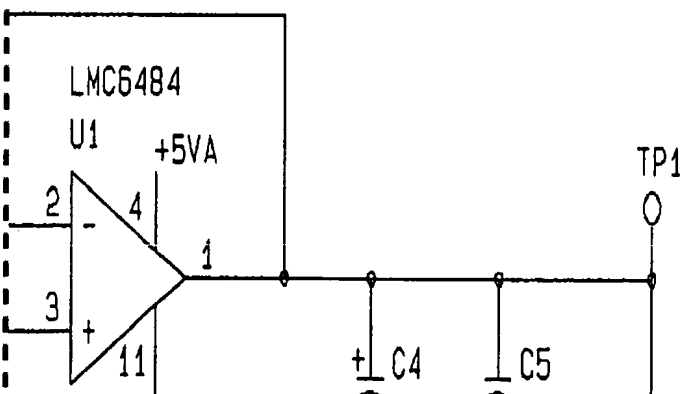
FIG. 38d

To Fig. 38b



To Fig. 38d

To Fig. 38f



To Fig. 38h

FIG. 38e

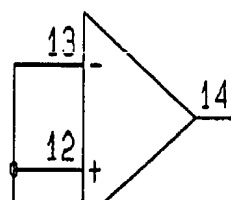
To Fig. 38c

To Fig. 38e

SPARES

LMC6484

U10



To Fig. 38i

FIG. 38f

C

B

To Fig. 38d

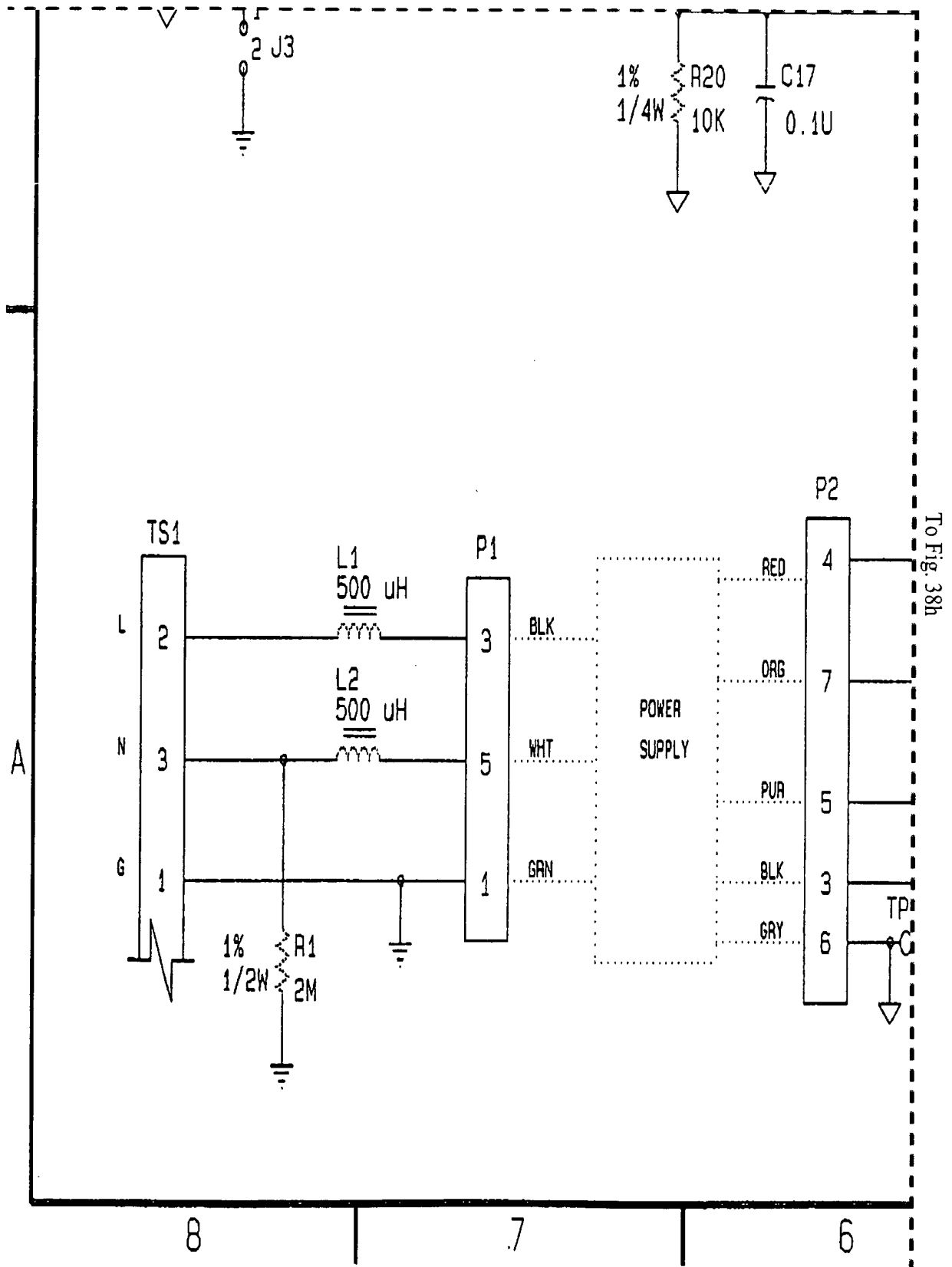


FIG. 38g

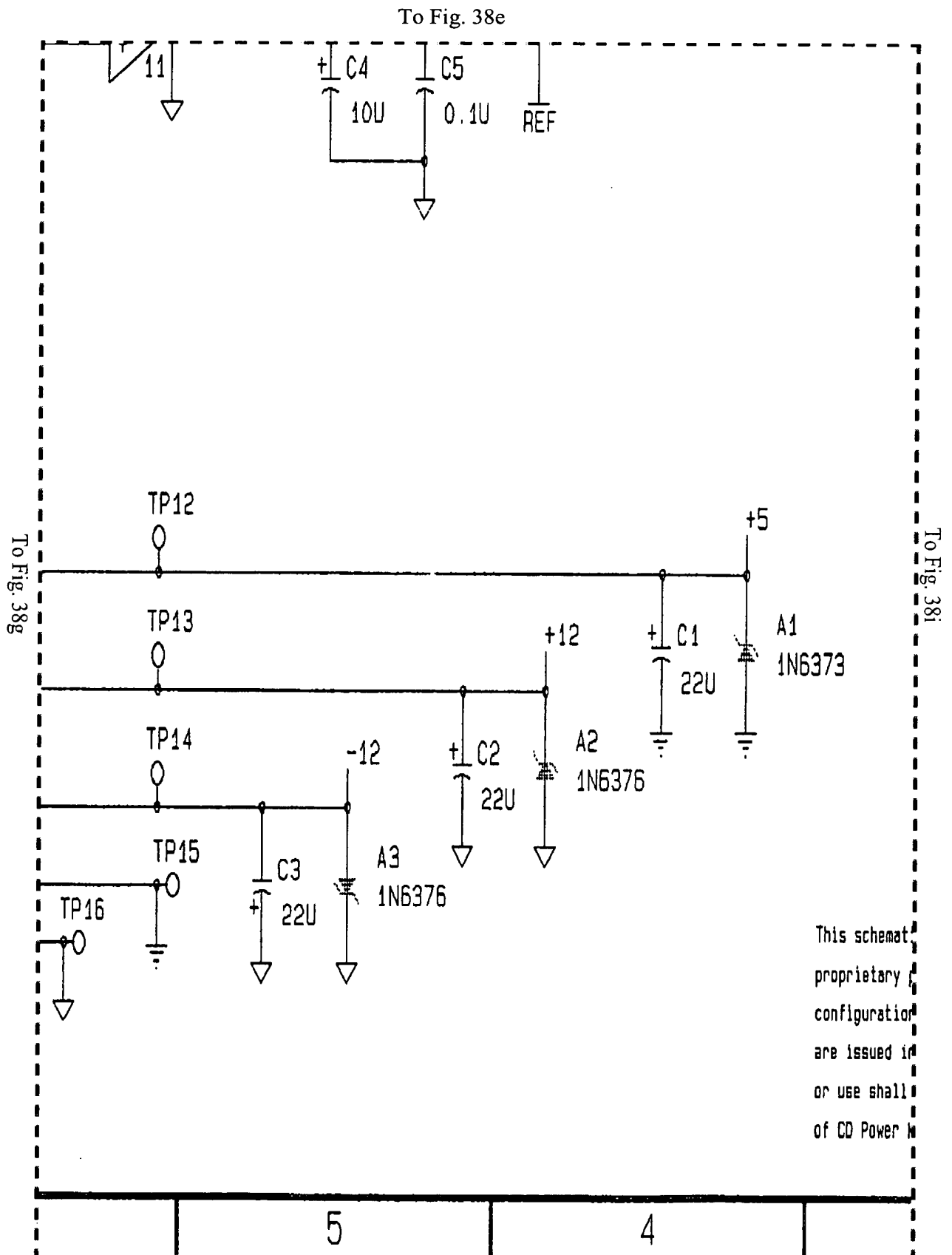
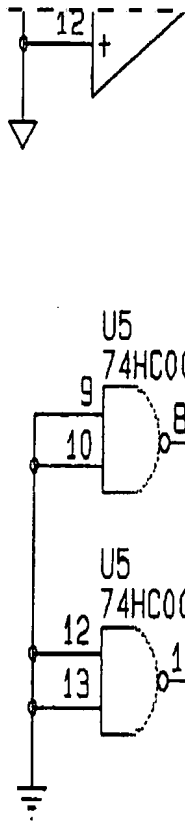


FIG. 38h

To Fig. 38f

To Fig. 38h



LAST USED: U11
R39
C30
S6
P4
A16
DS3
TP16
J5
PTC3
TS3
L2
T4

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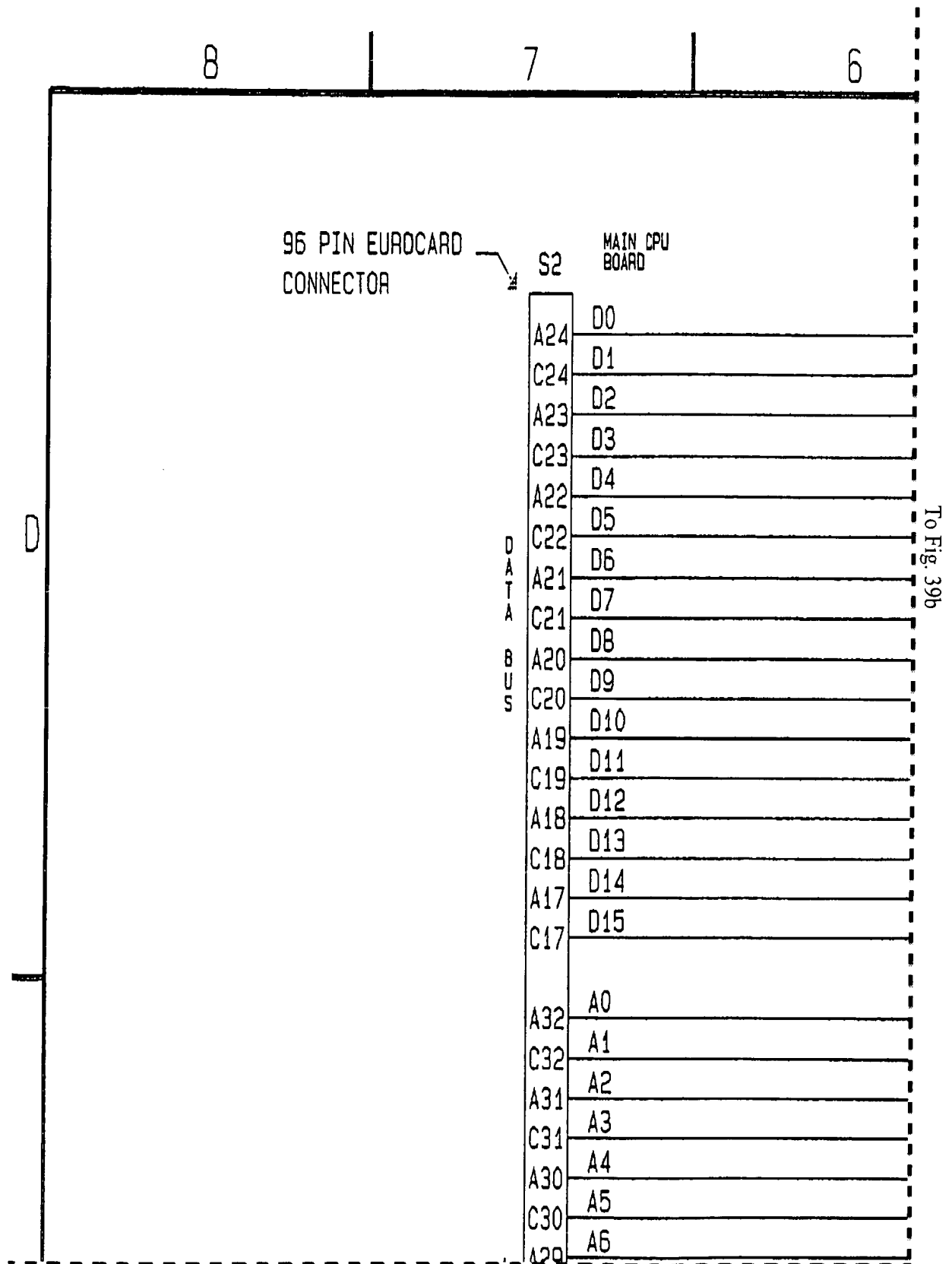
SHEET 1 OF 7

3

2

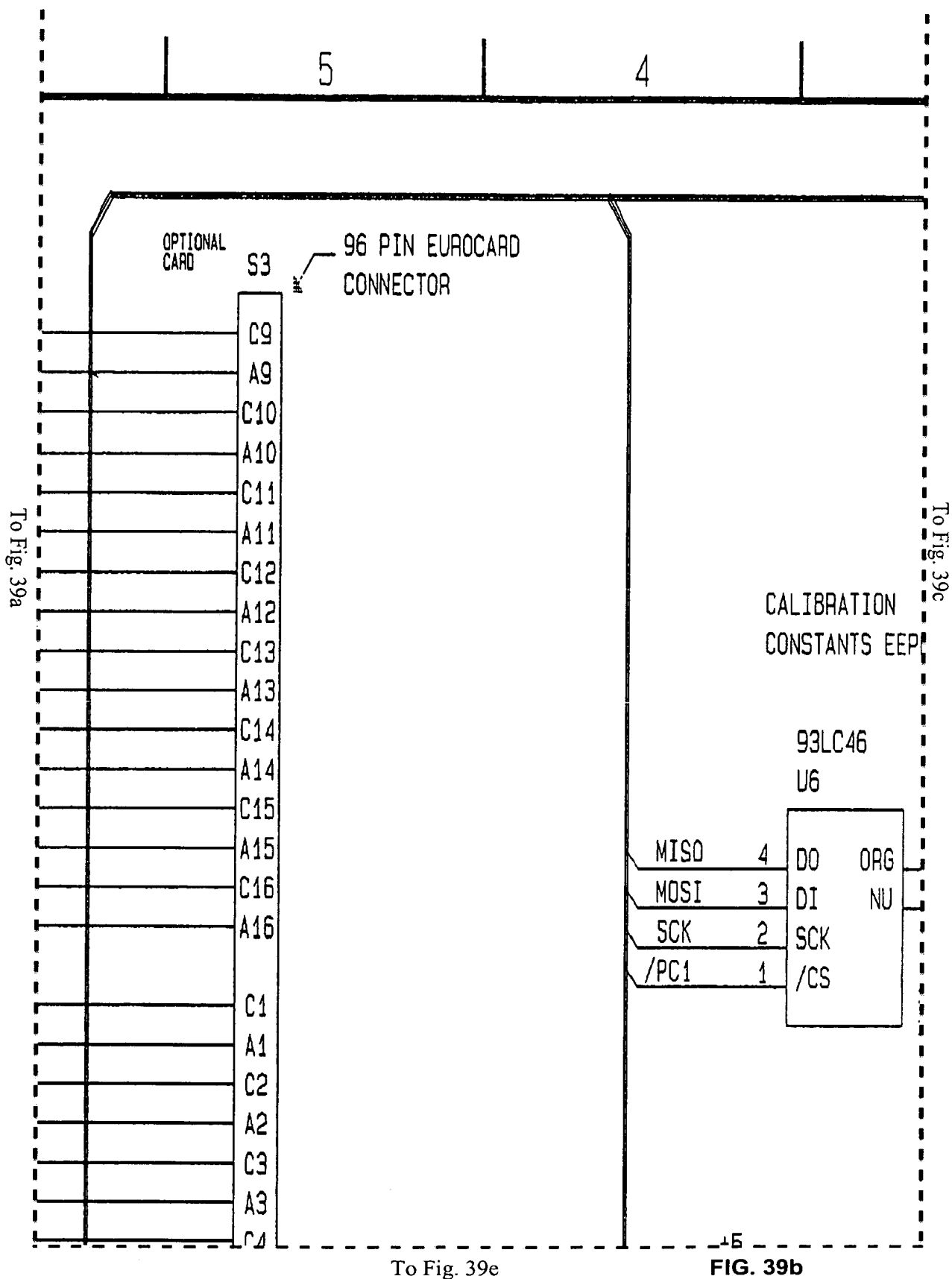
1

FIG. 38i



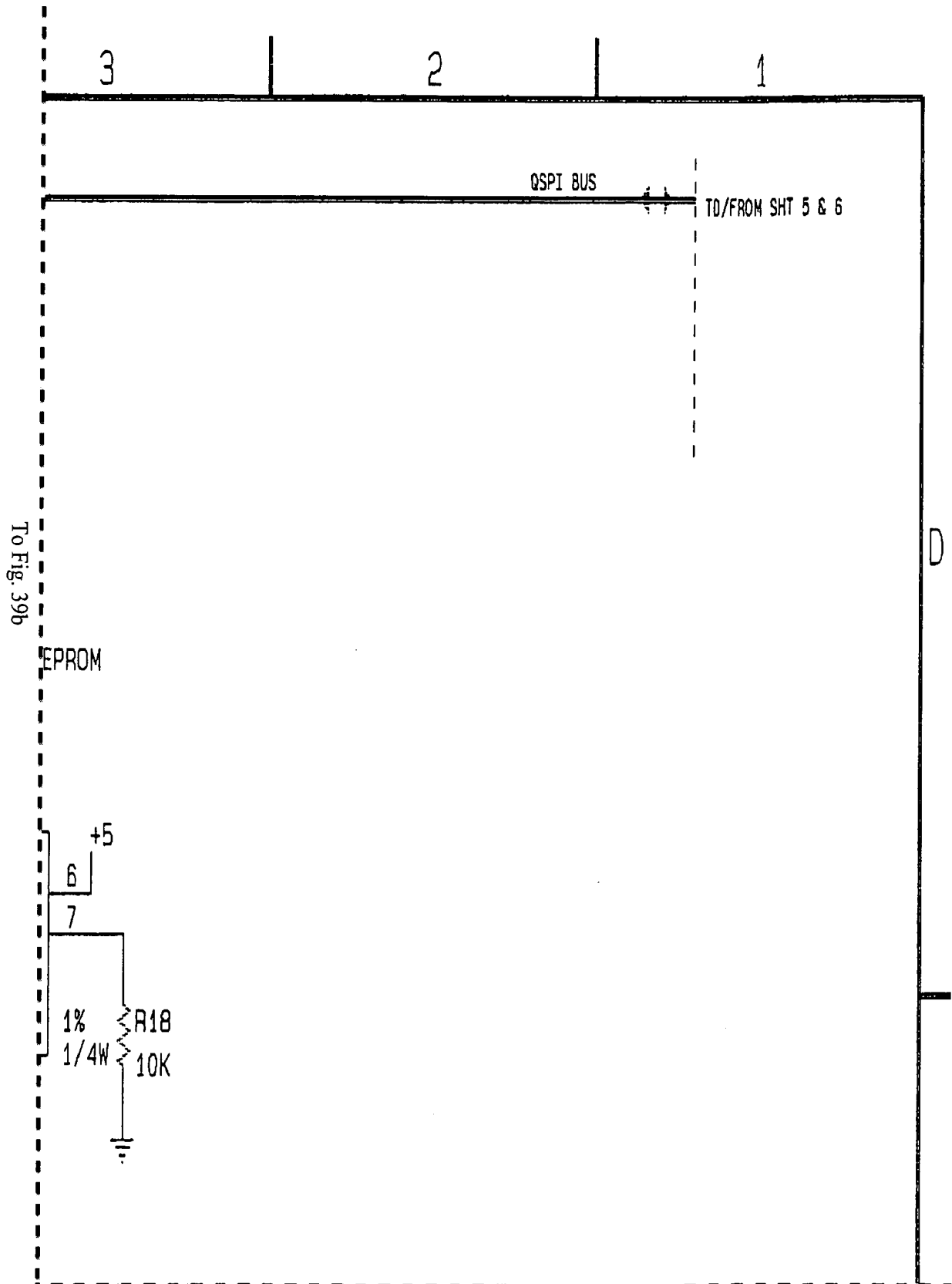
To Fig. 39d

FIG. 39a



To Fig. 39e

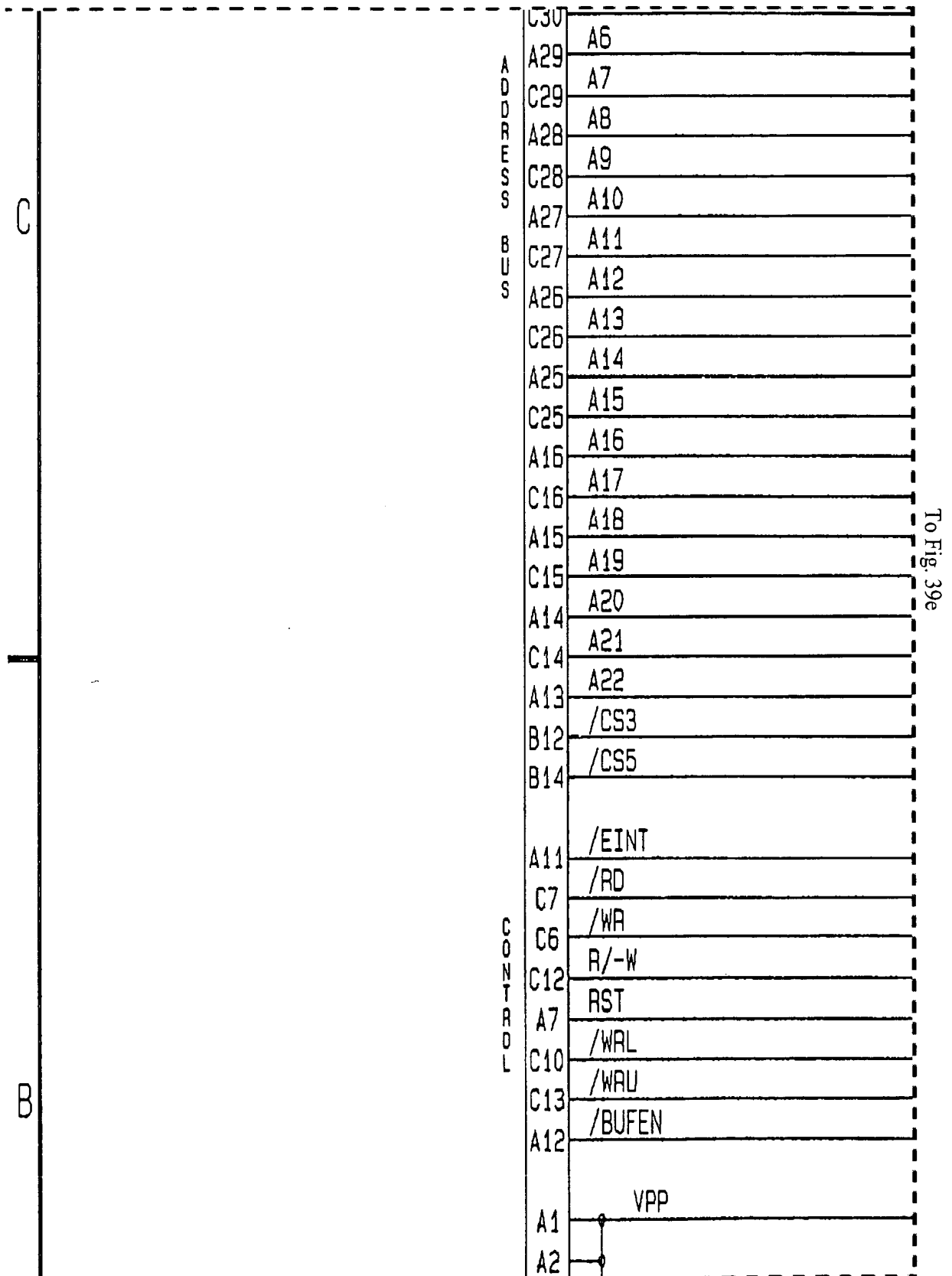
FIG. 39b



To Fig. 39f

FIG. 39c

To Fig. 39a



To Fig. 39g

FIG. 39d

To Fig. 39d

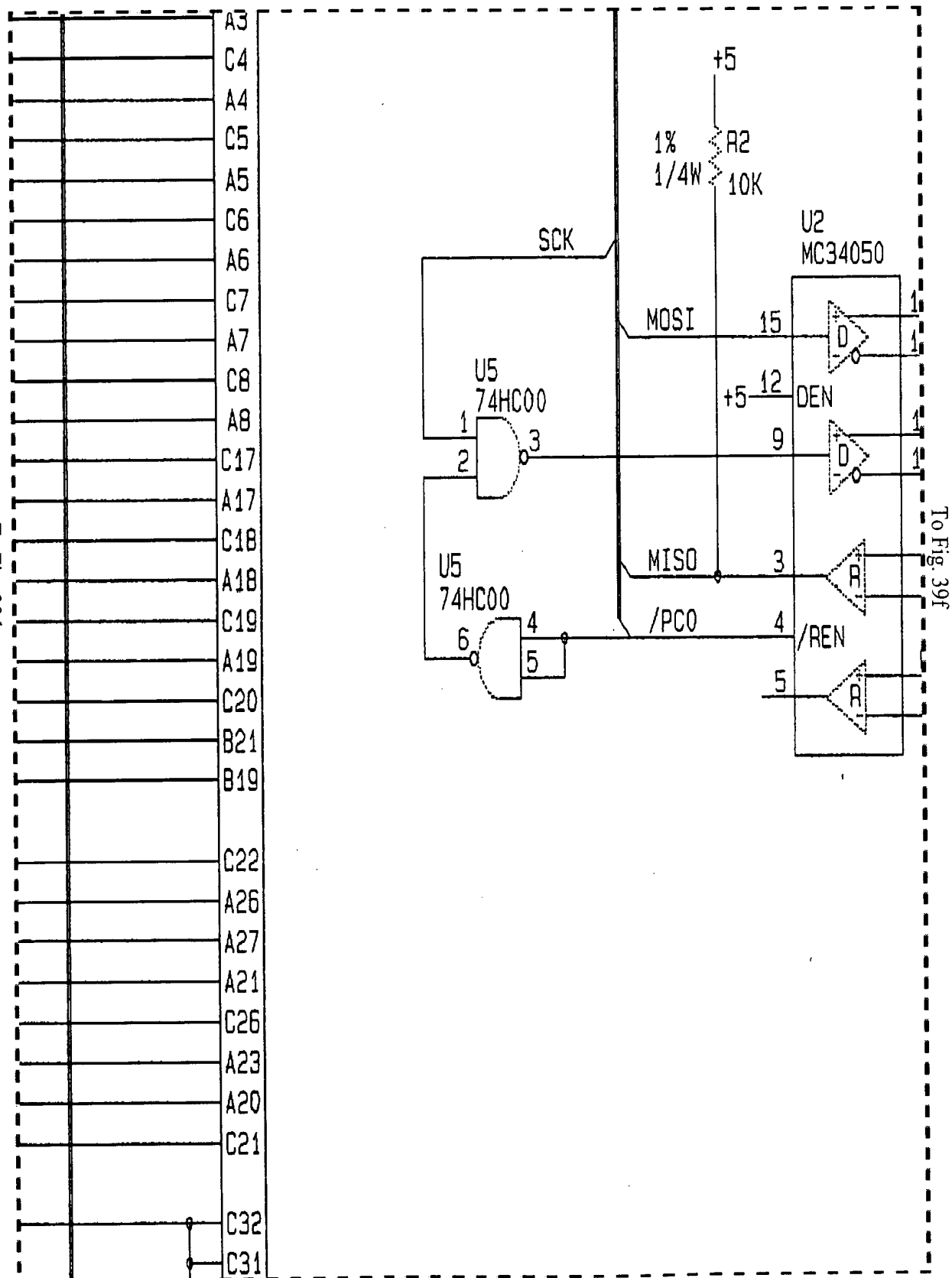
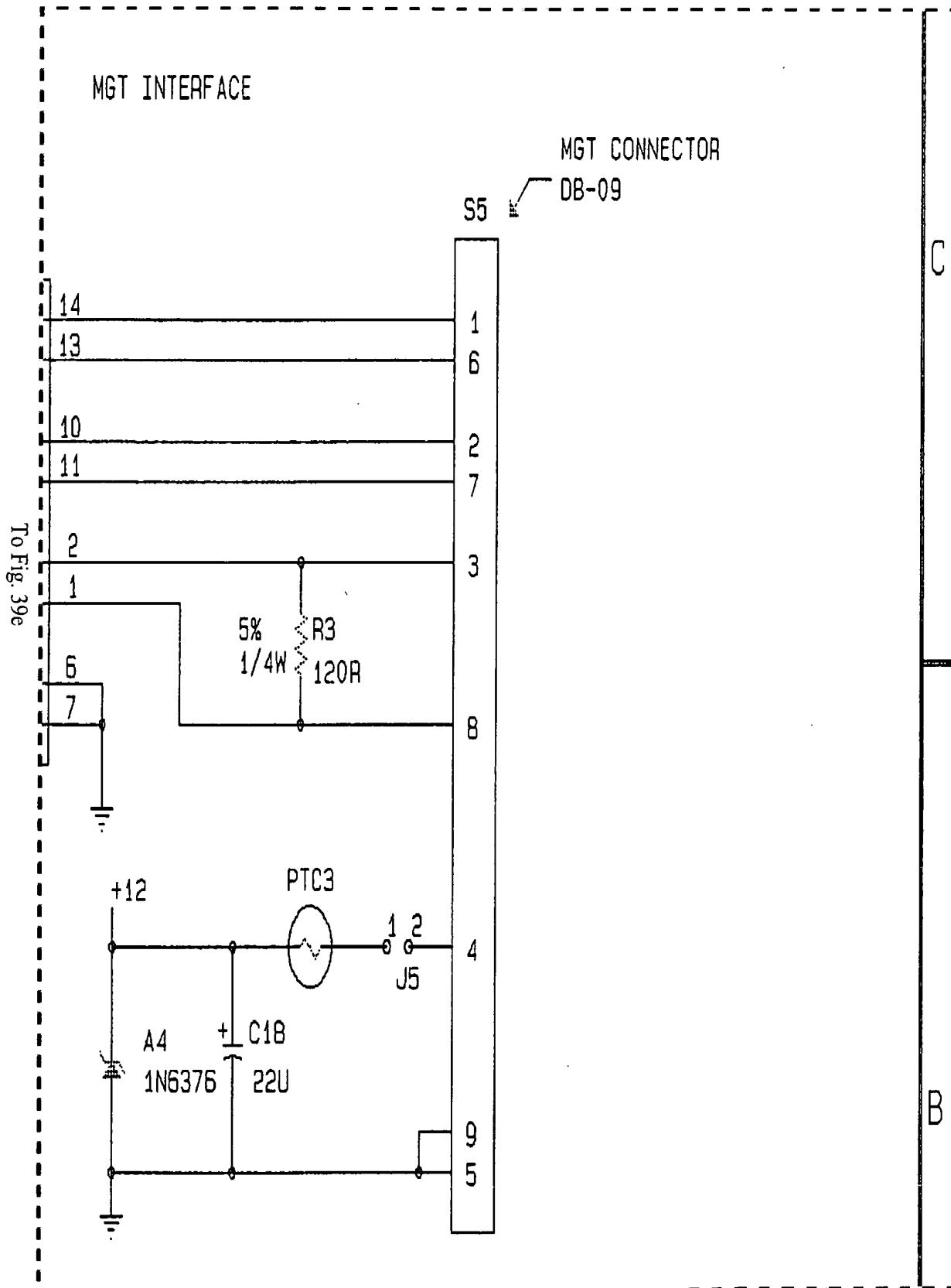


FIG. 39e

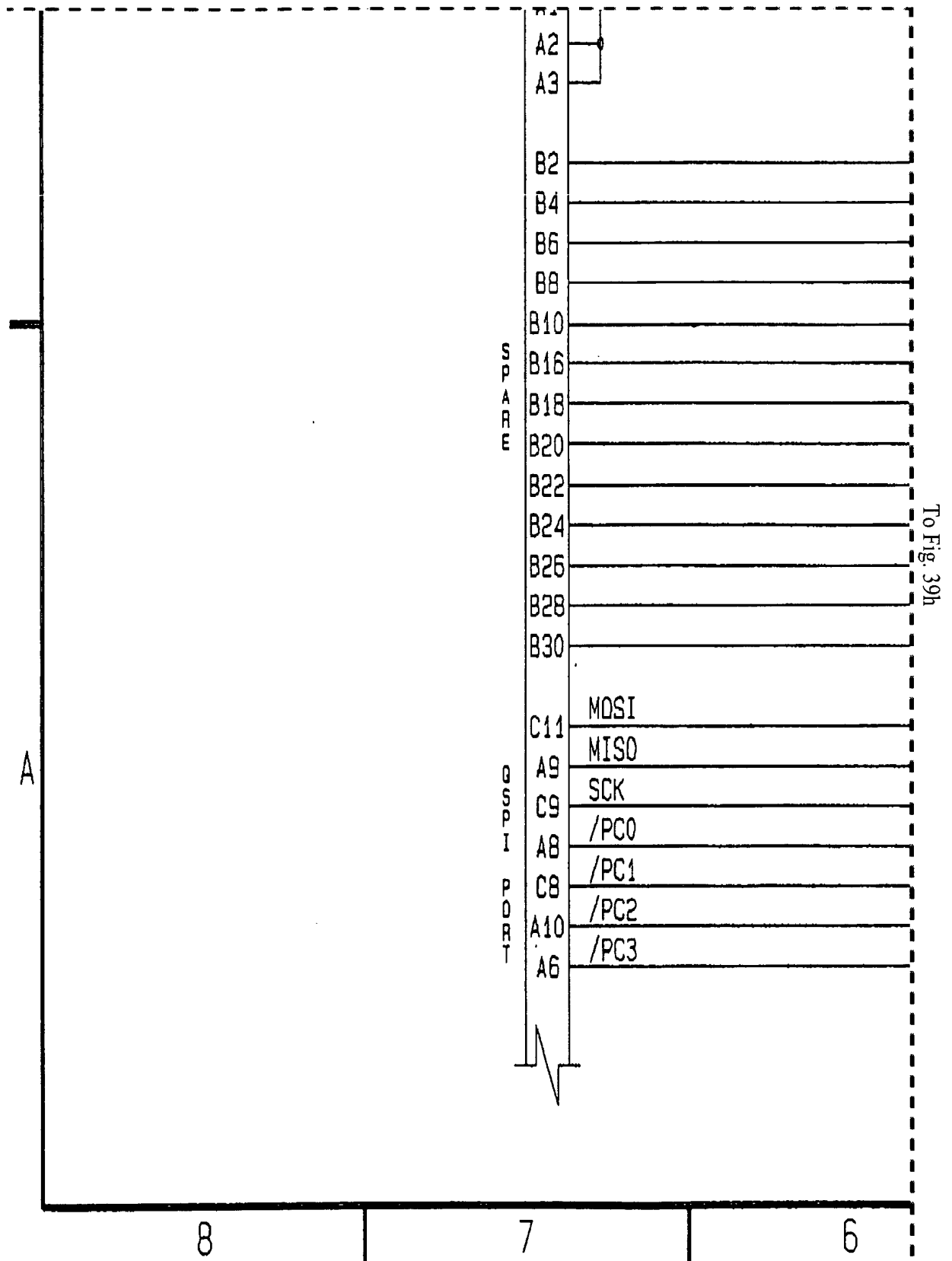
To Fig. 39c



To Fig. 39i

FIG. 39f

To Fig. 39d



To Fig. 39e

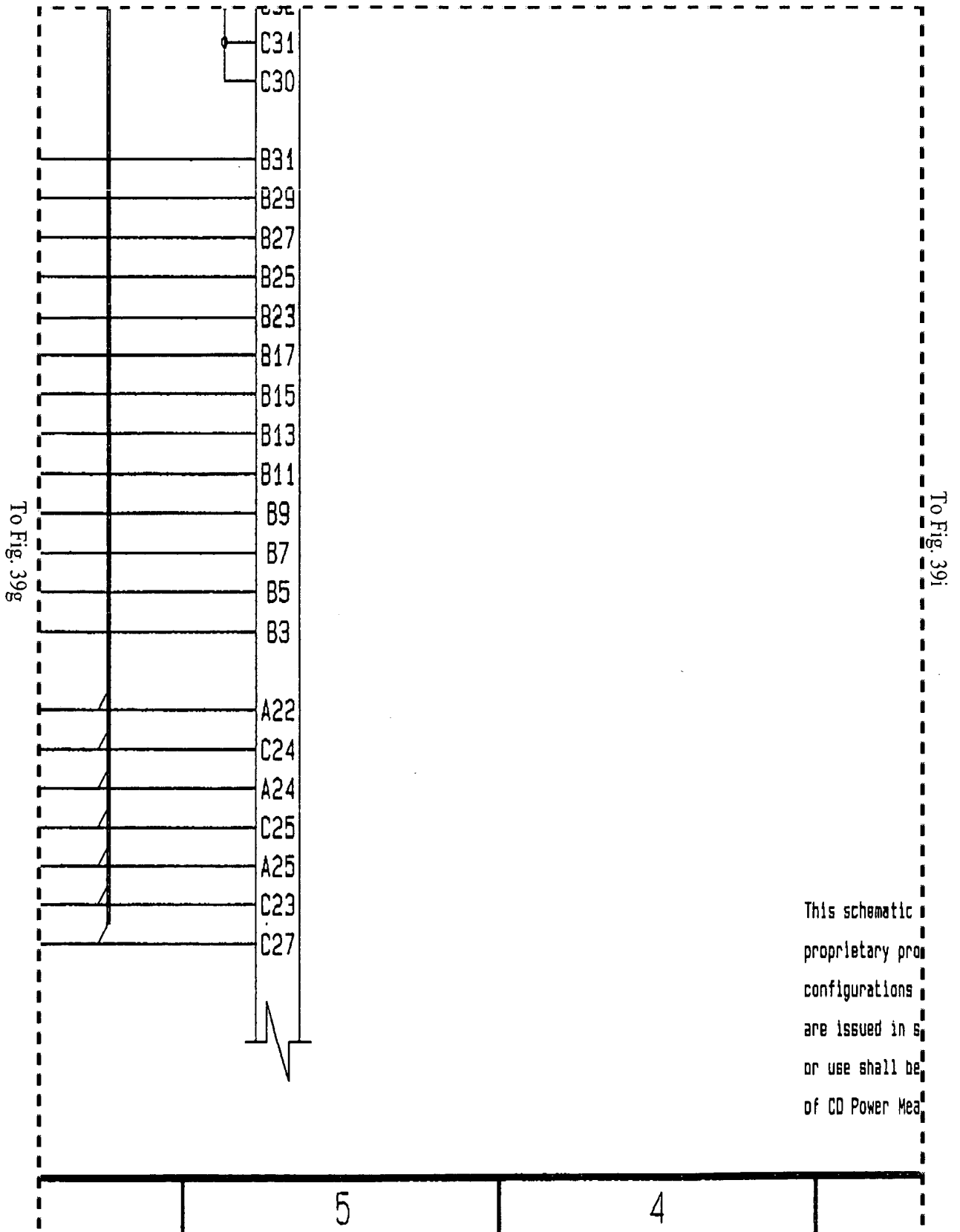


FIG. 39h

To Fig. 39f

To Fig. 39h

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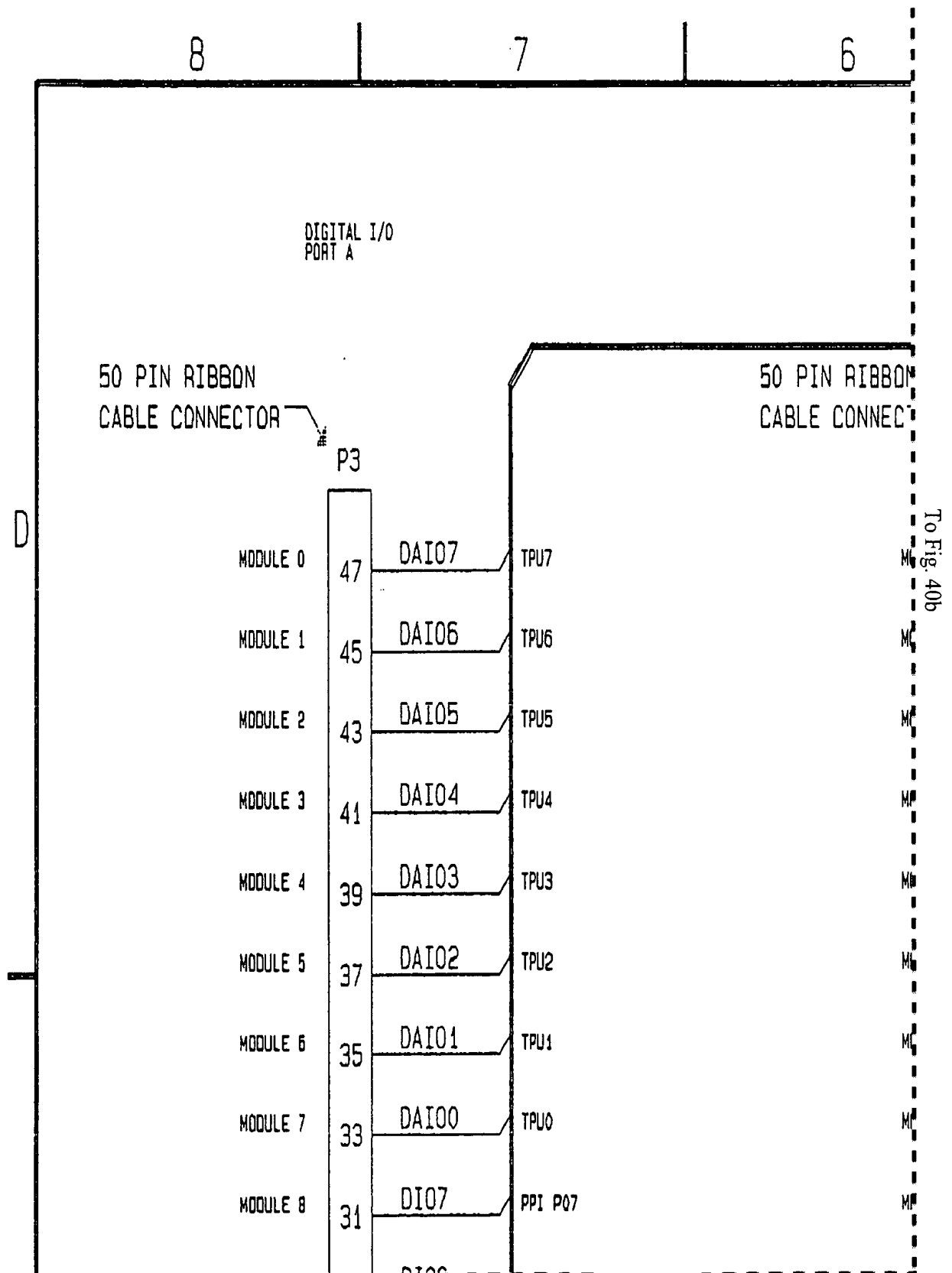
SHEET 2 OF 7

3

2

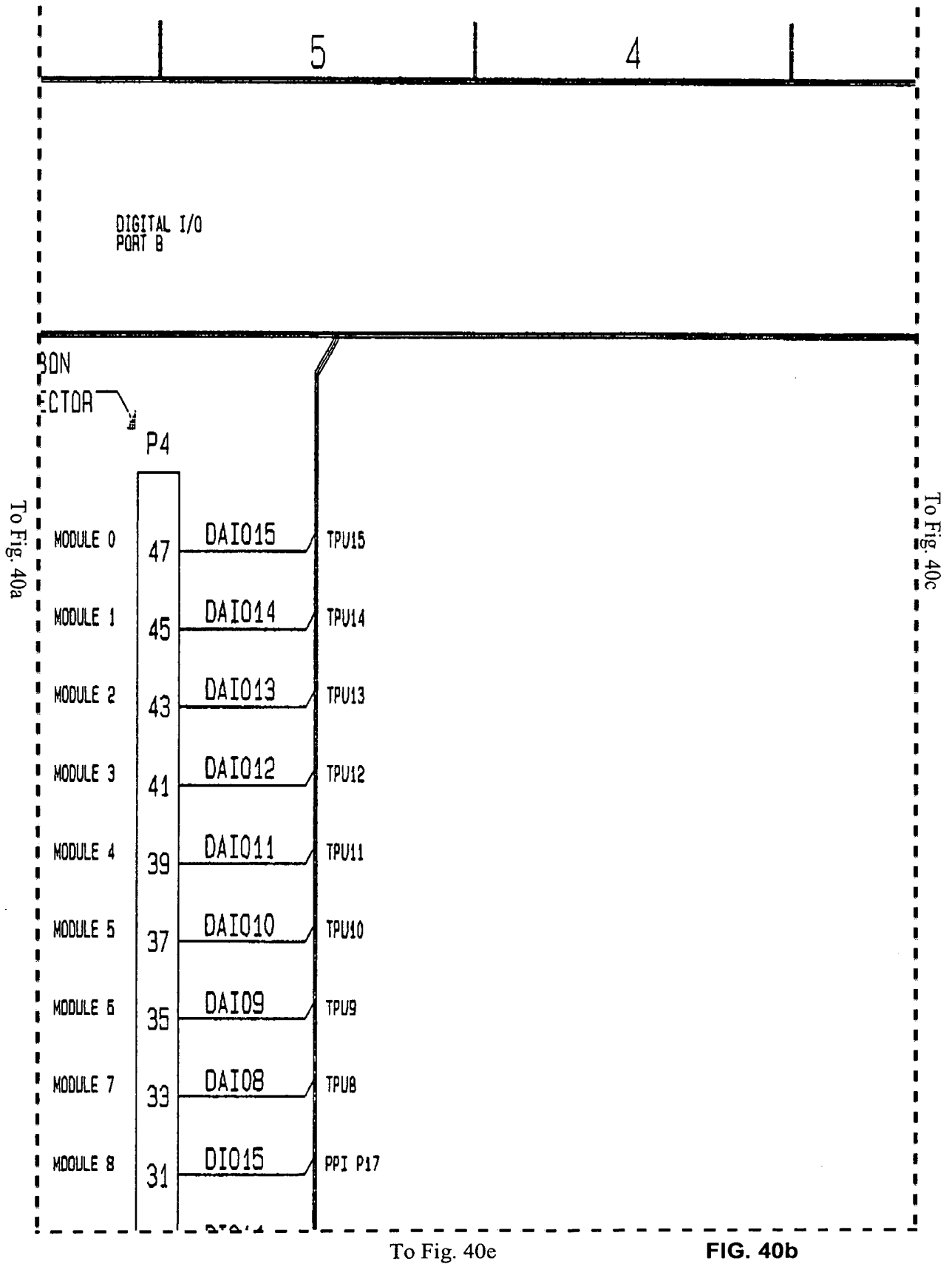
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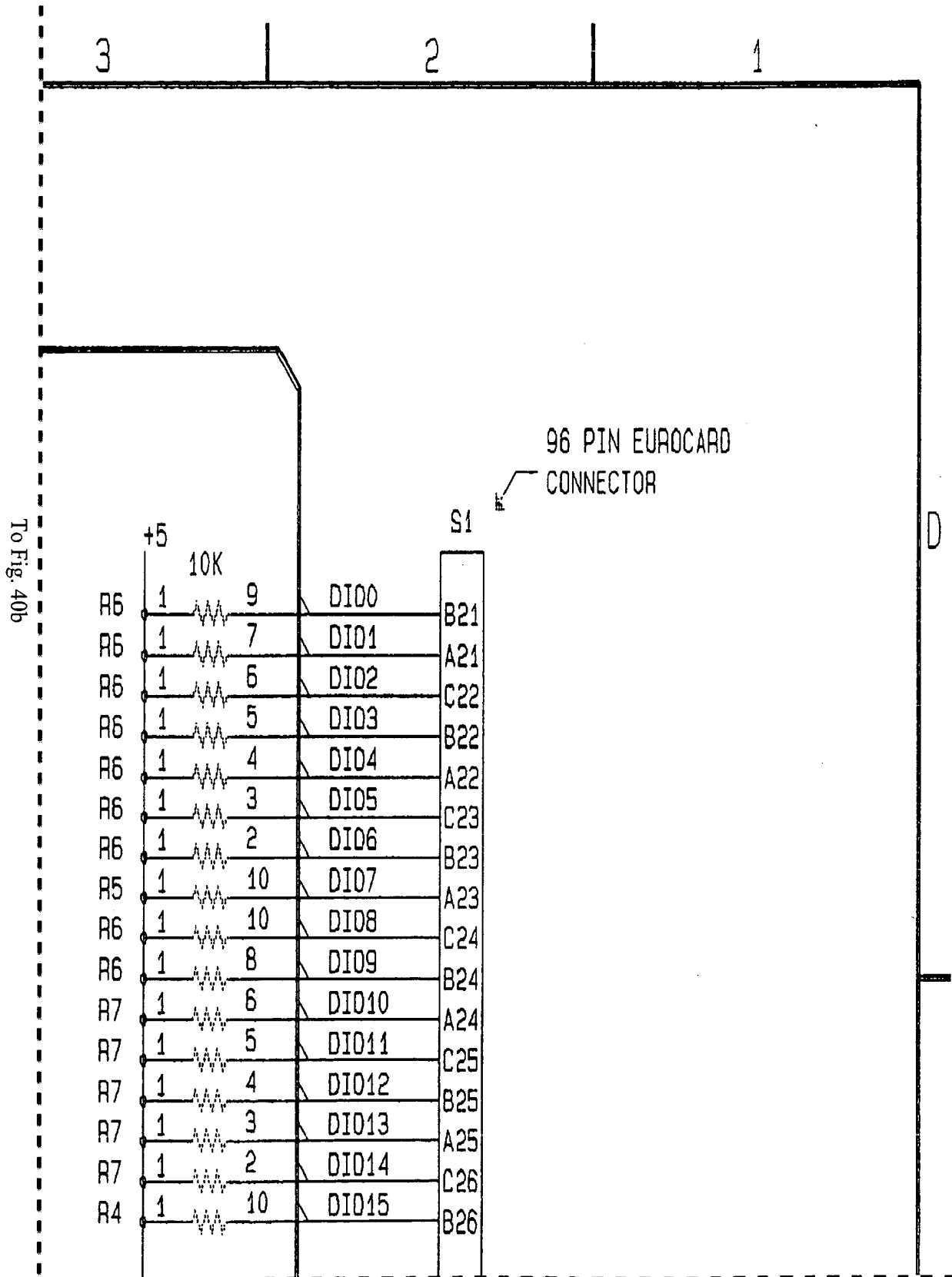
FIG. 39i



To Fig. 40d

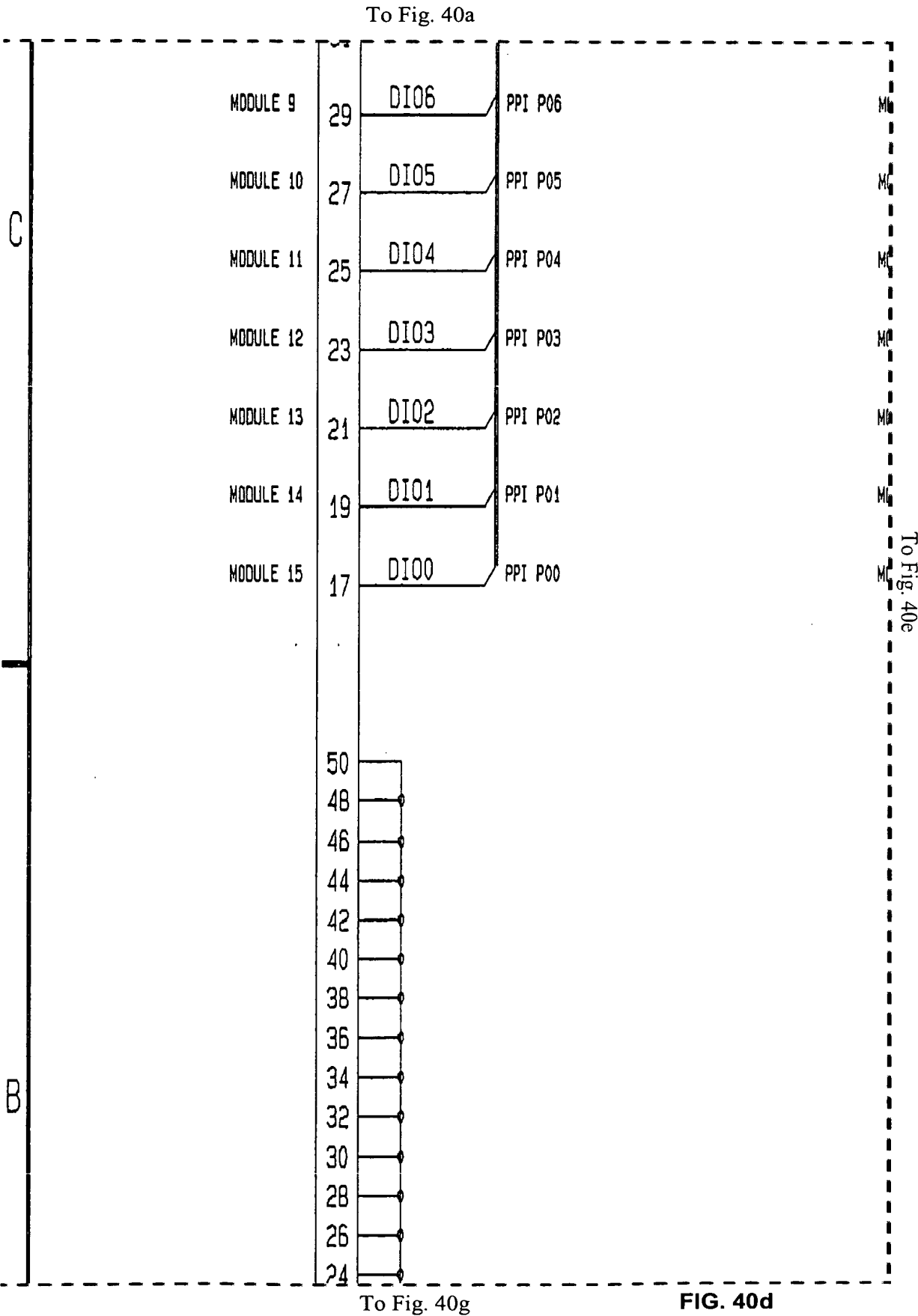
FIG. 40a



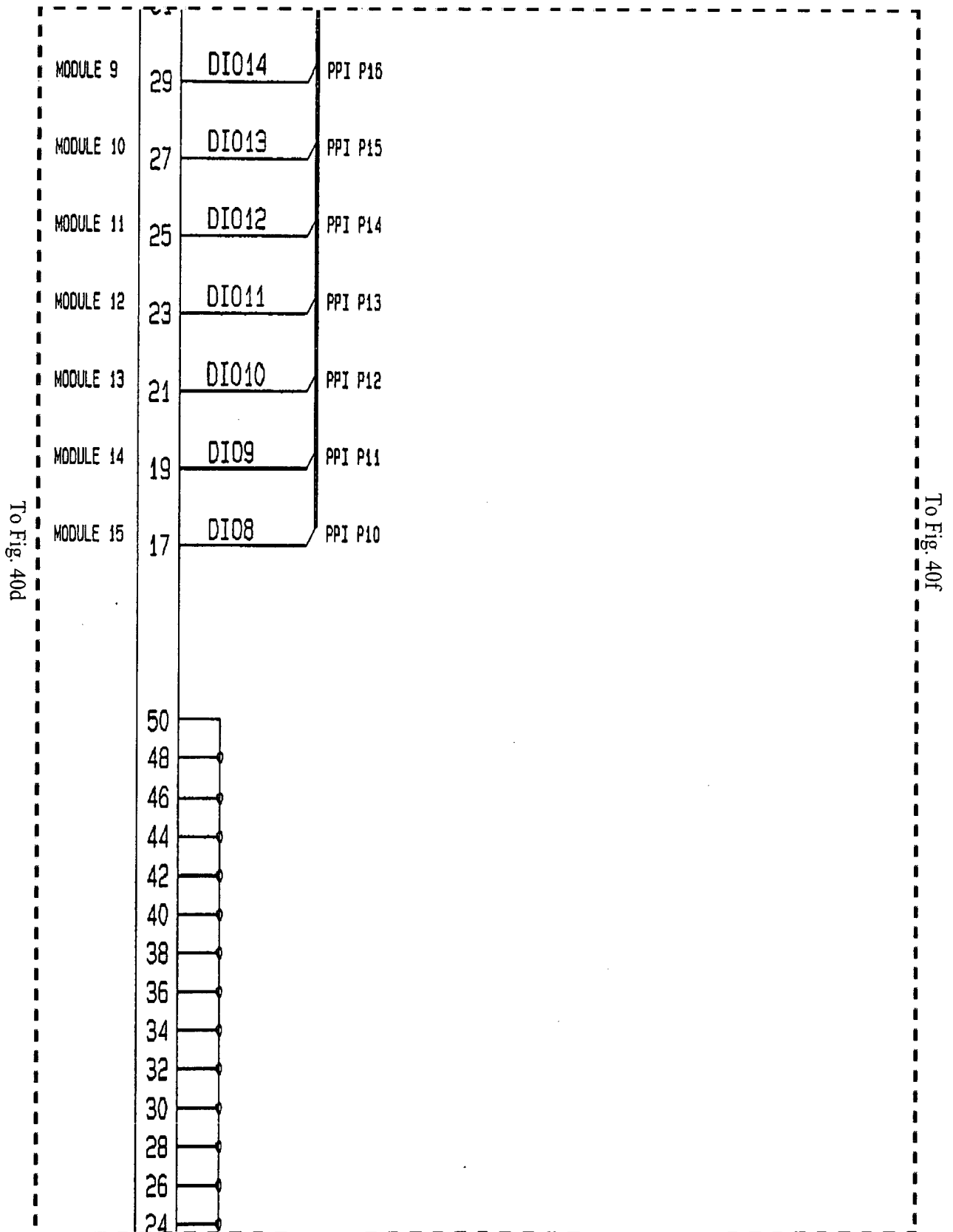


To Fig. 40f

FIG. 40c



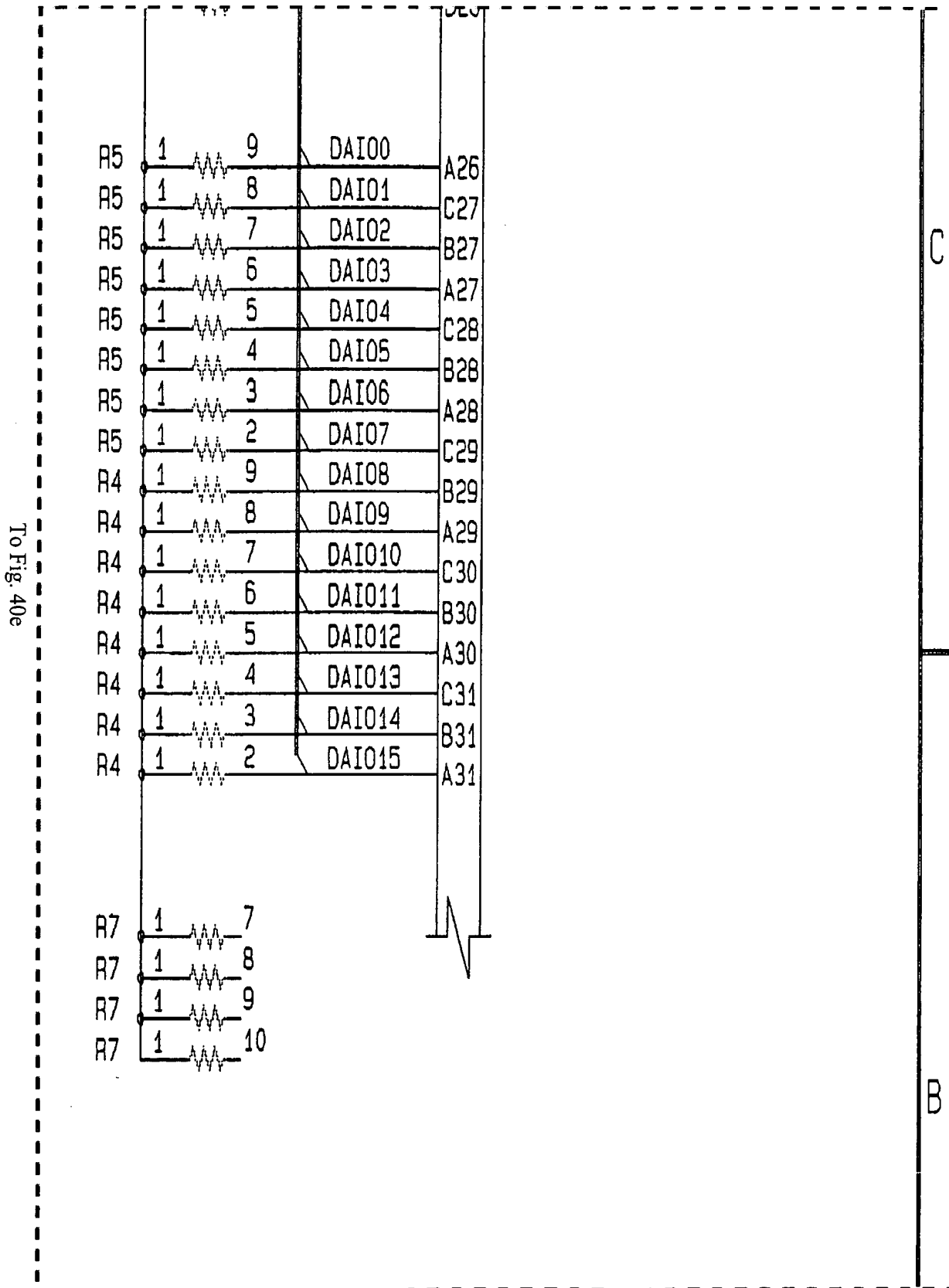
To Fig. 40b



To Fig. 40h

FIG. 40e

To Fig. 40c



To Fig. 40i

FIG. 40f

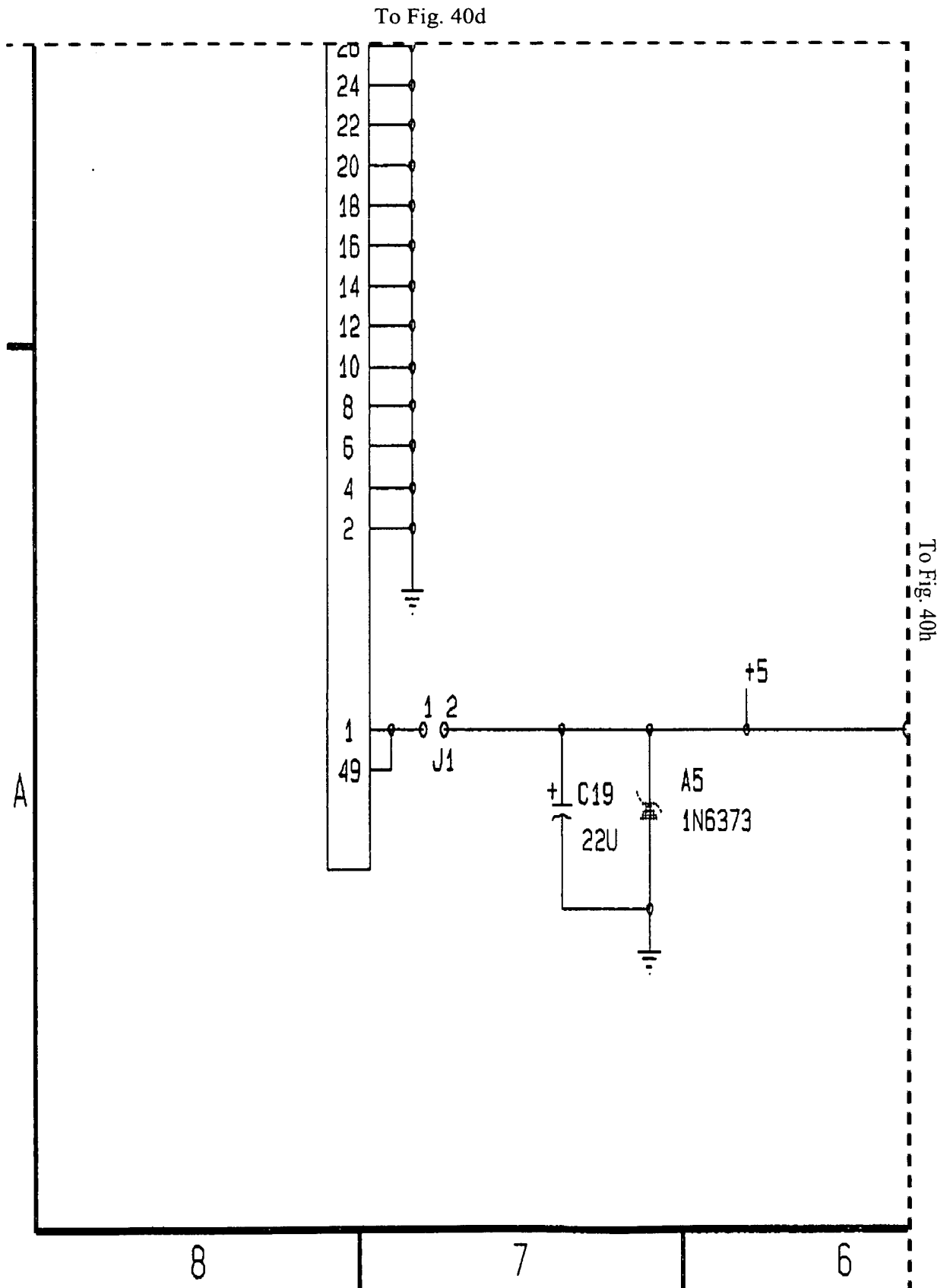


FIG. 40g

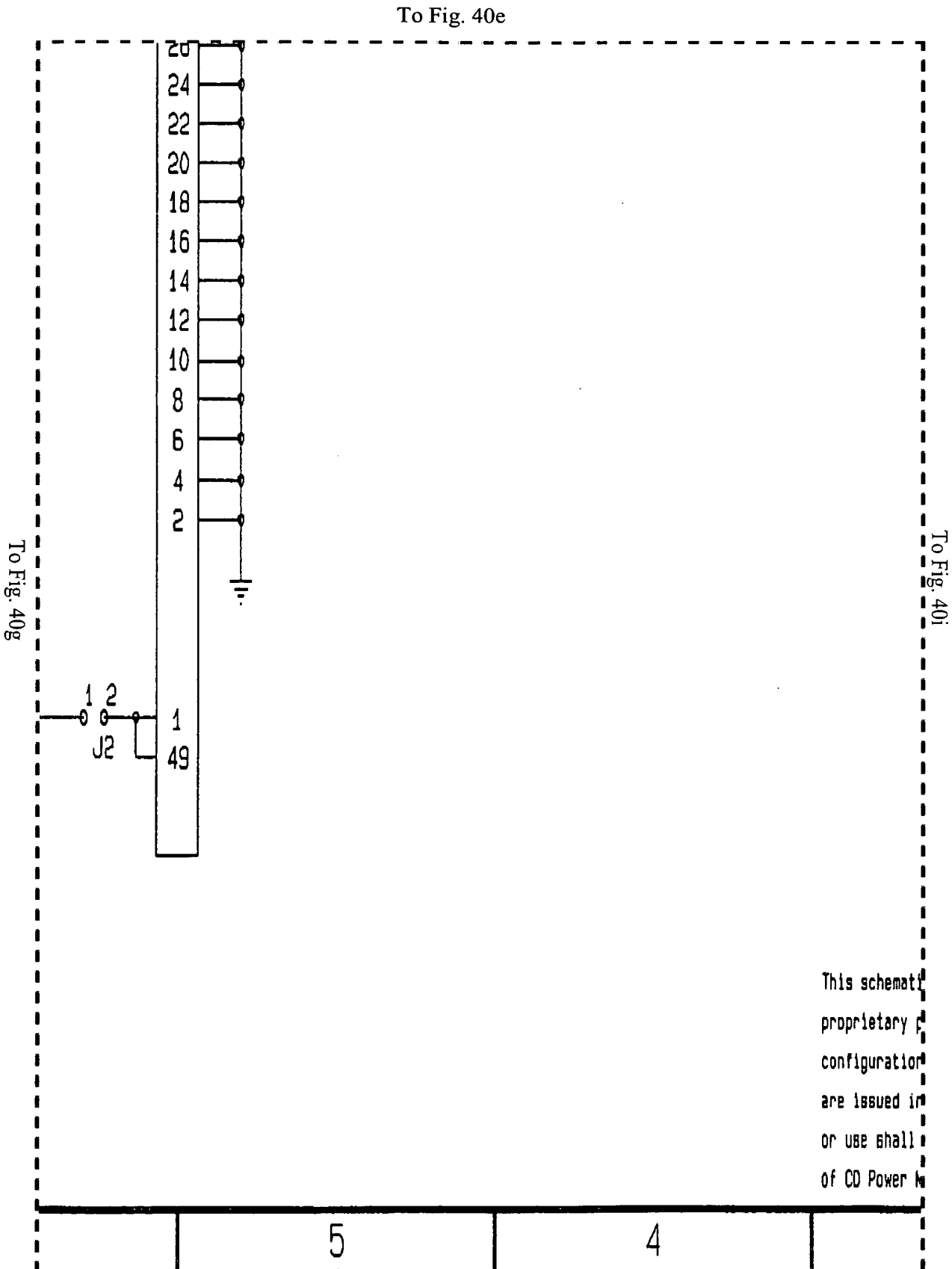
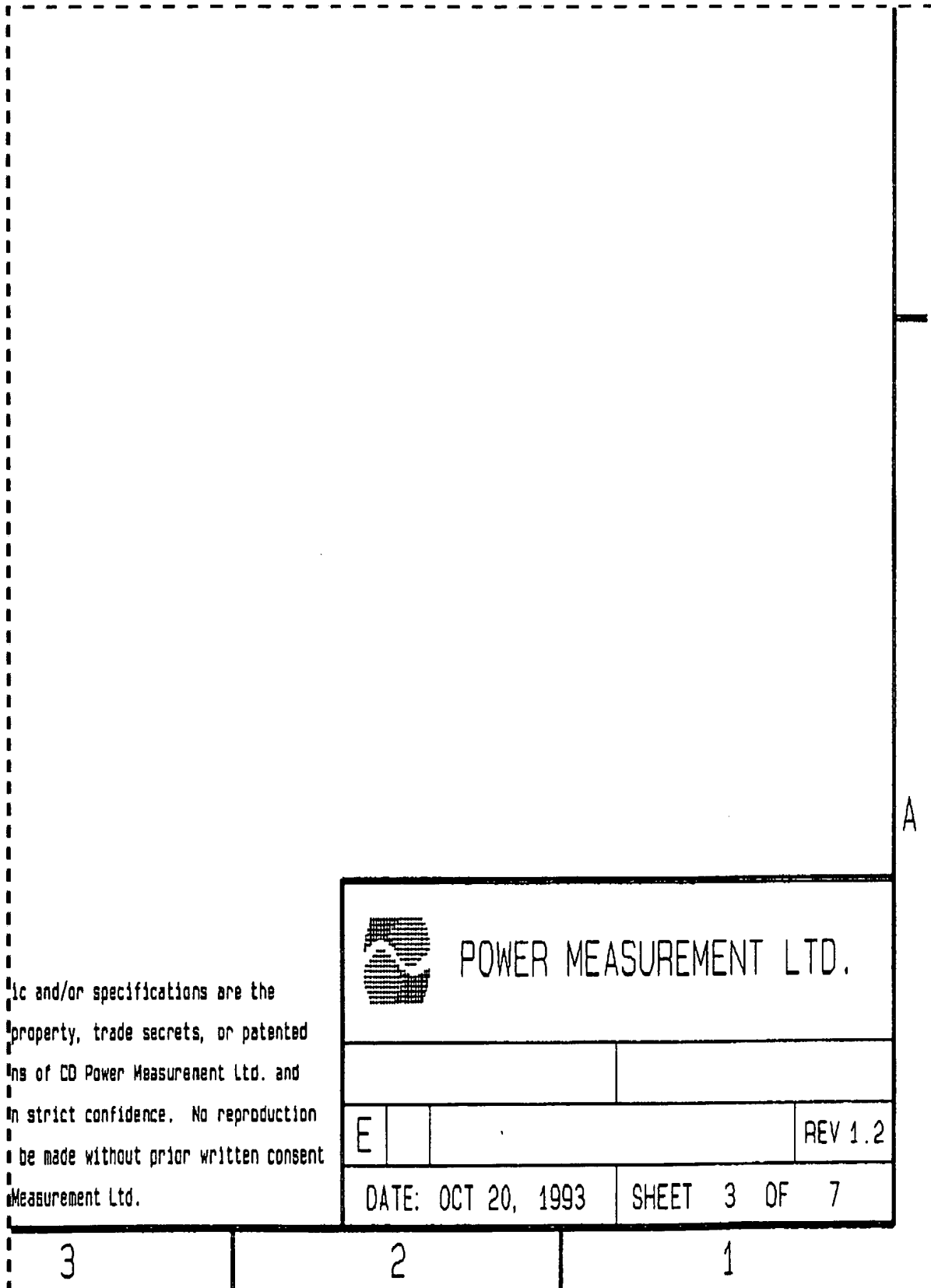


FIG. 40h

To Fig. 40f

To Fig. 40h



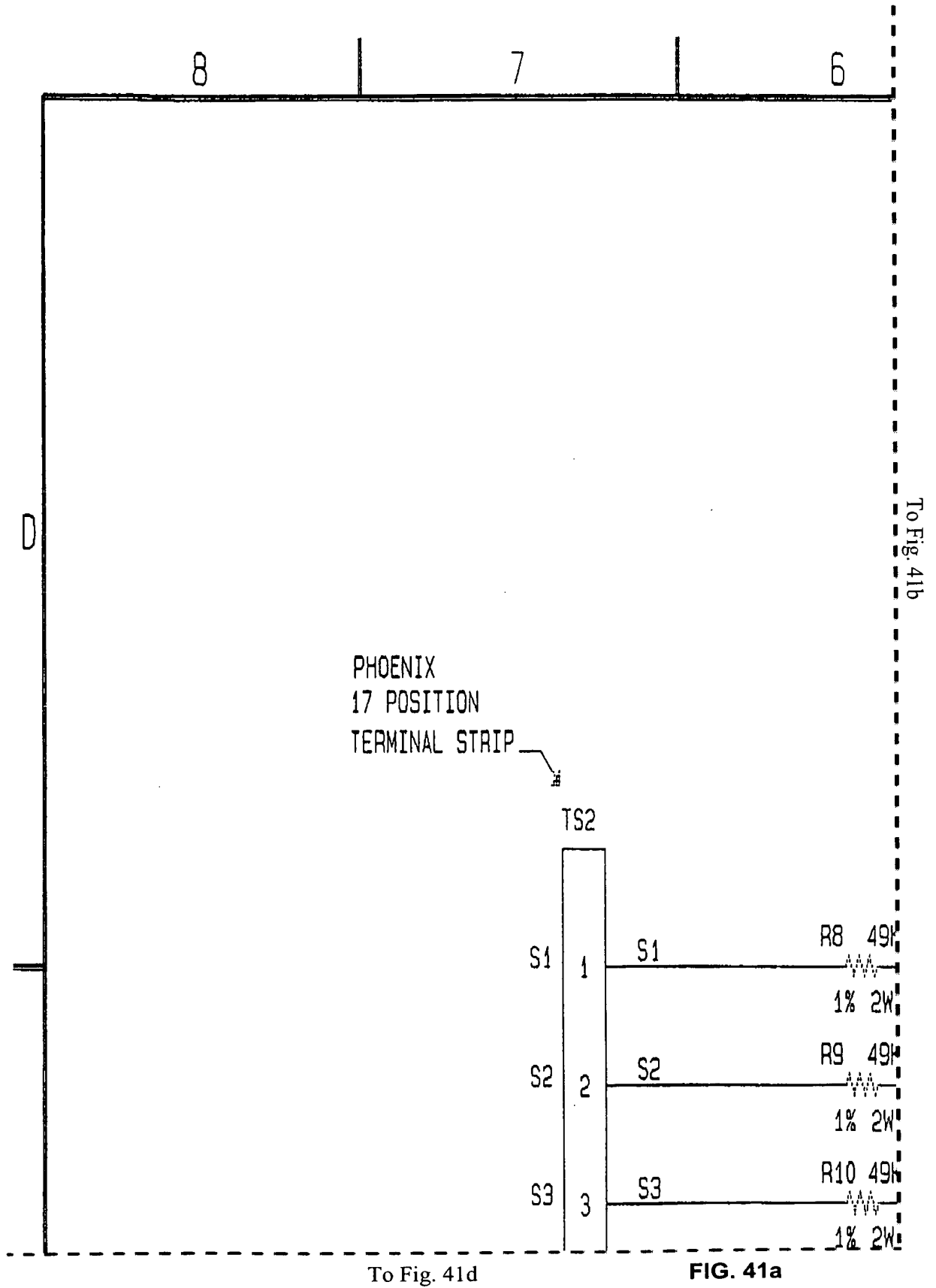
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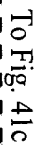
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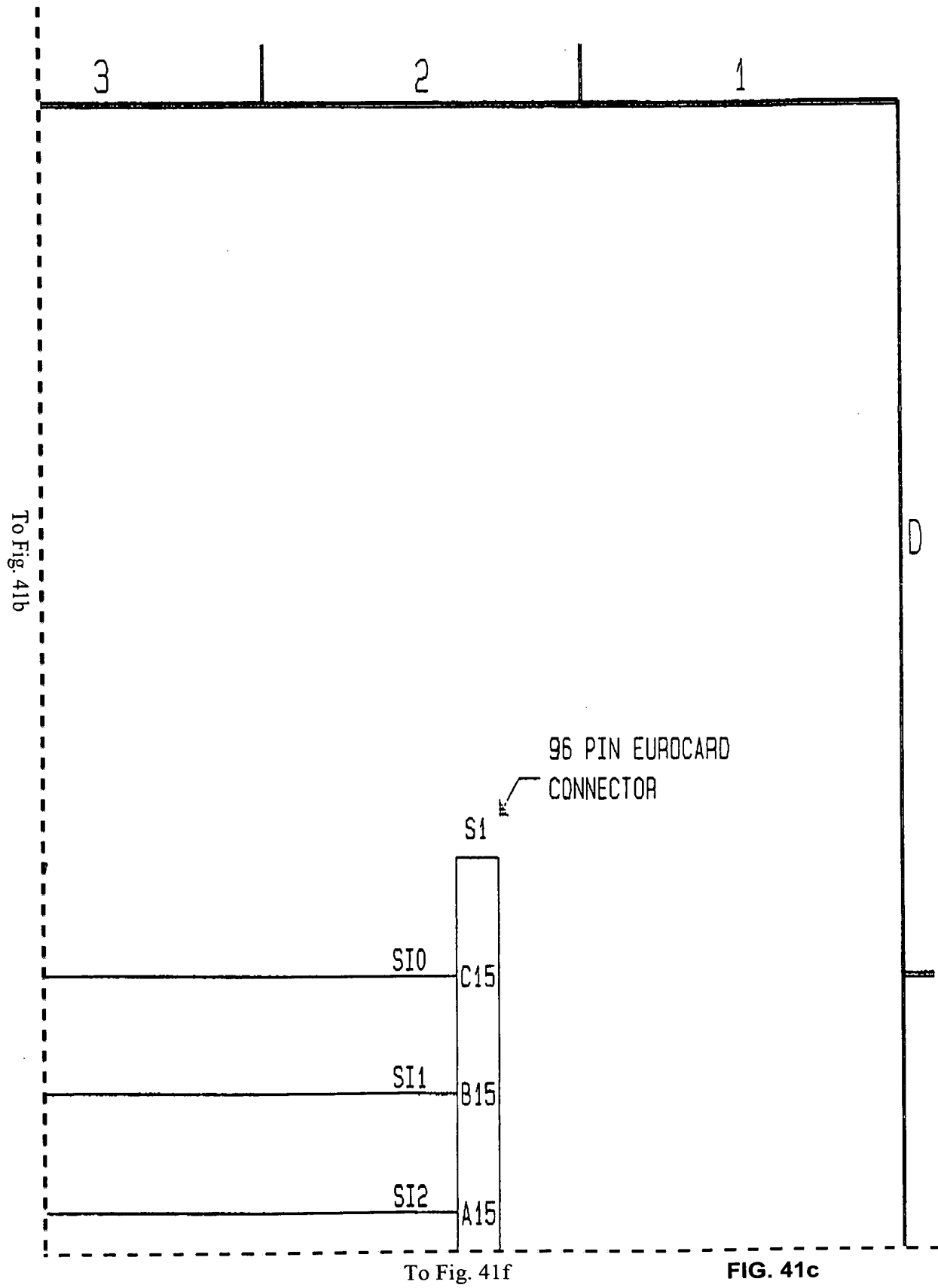
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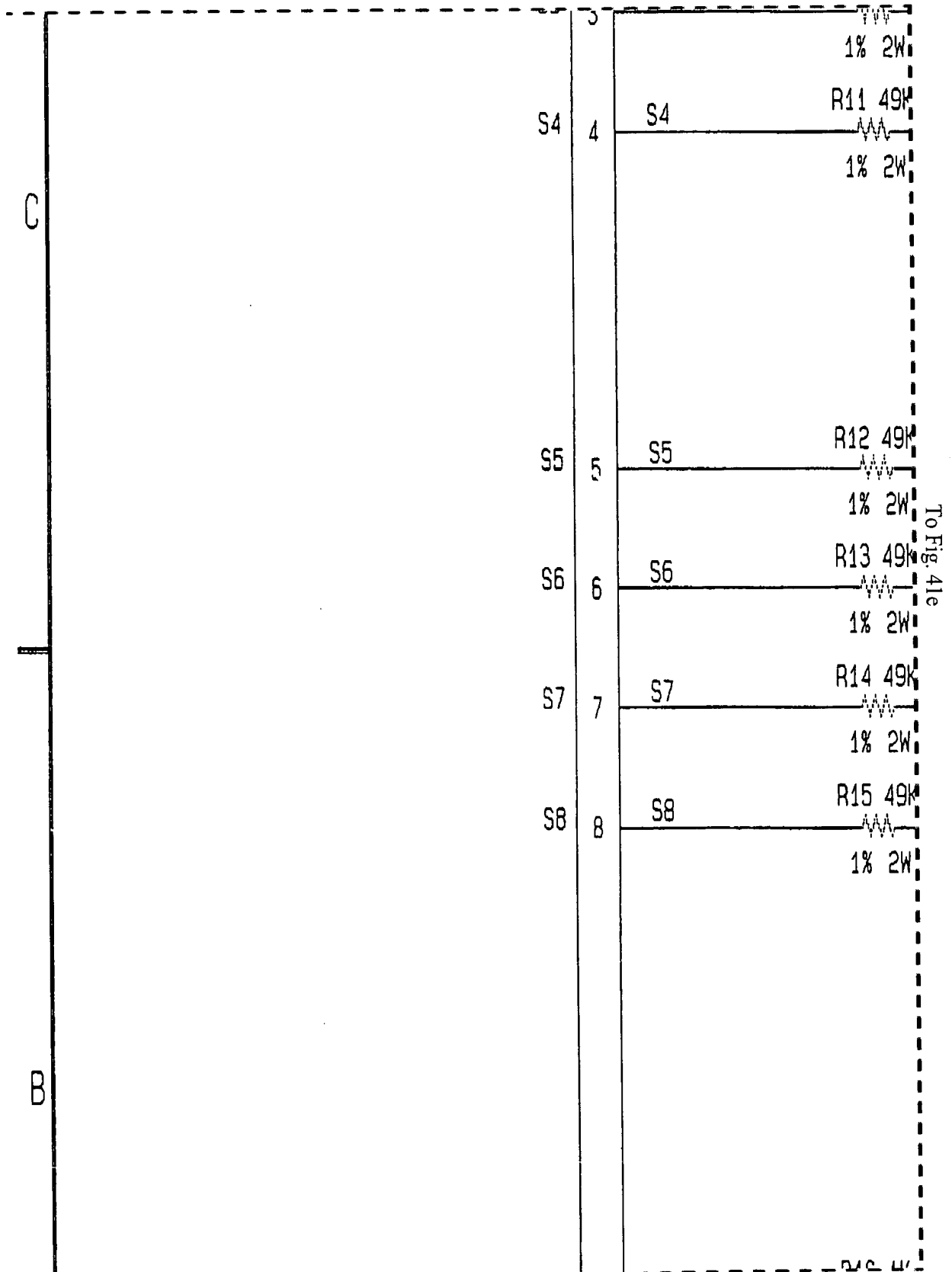
FIG. 40i







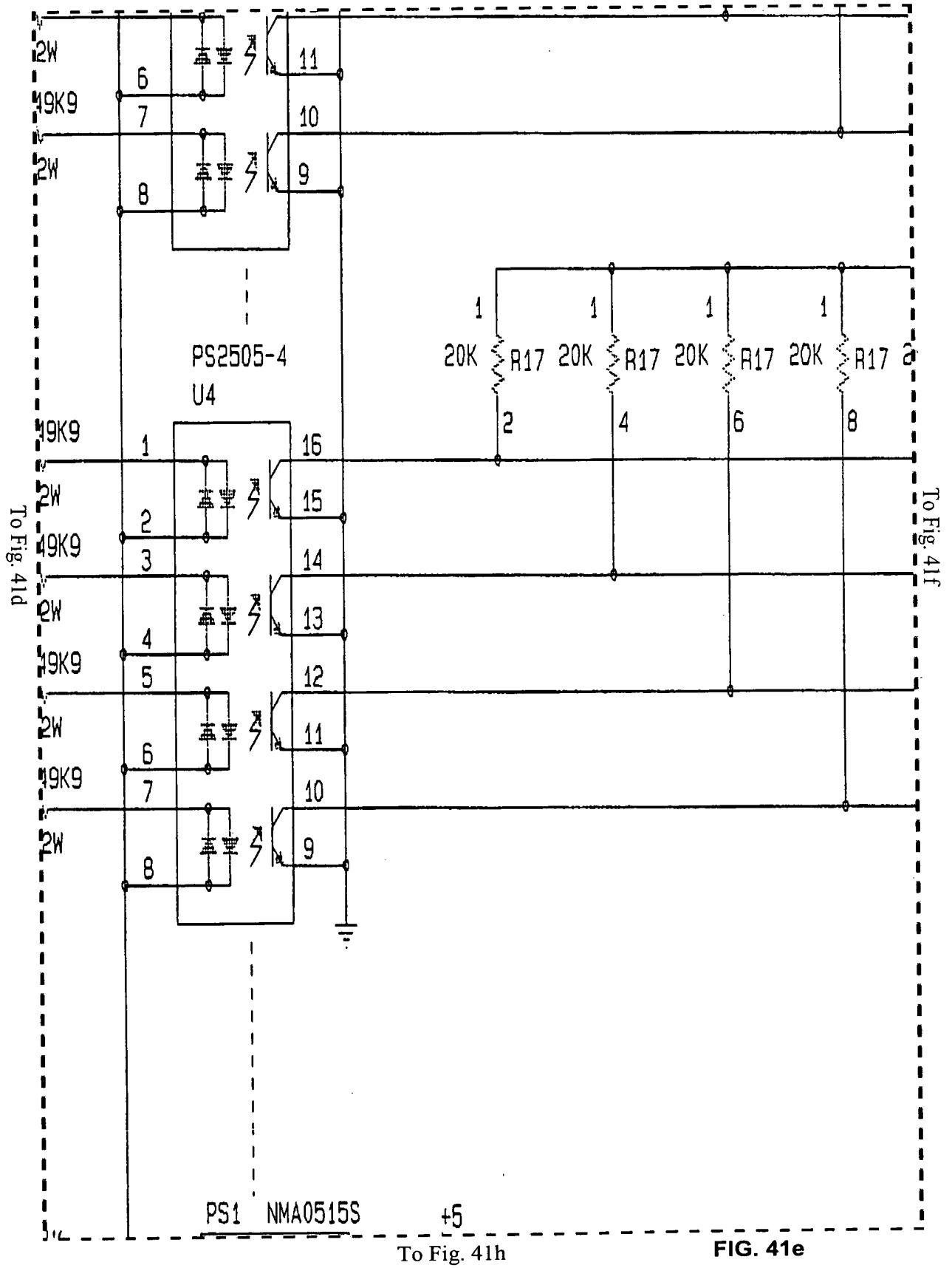
To Fig. 41a

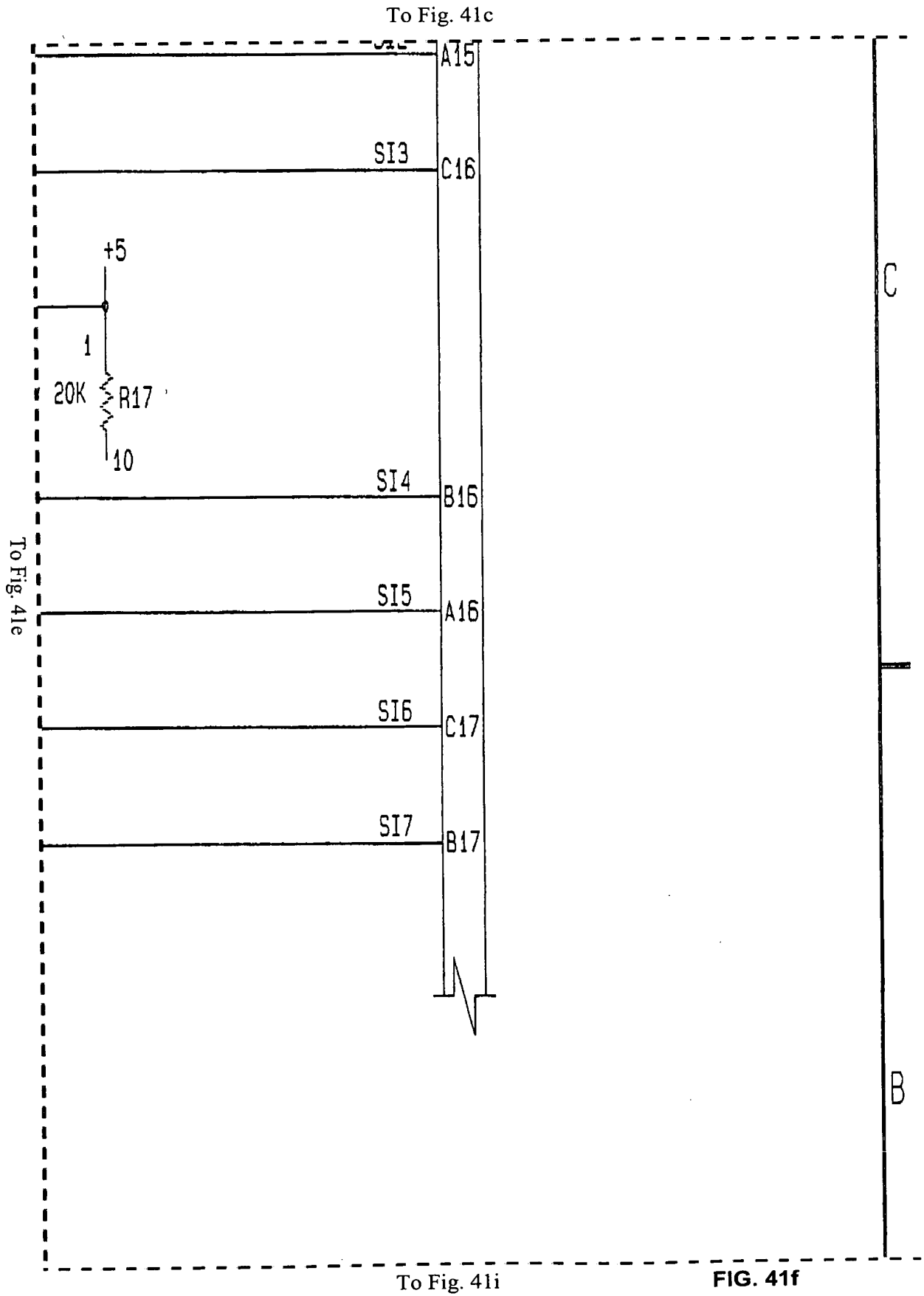


To Fig. 41g

FIG. 41d

To Fig. 41b





To Fig. 41d

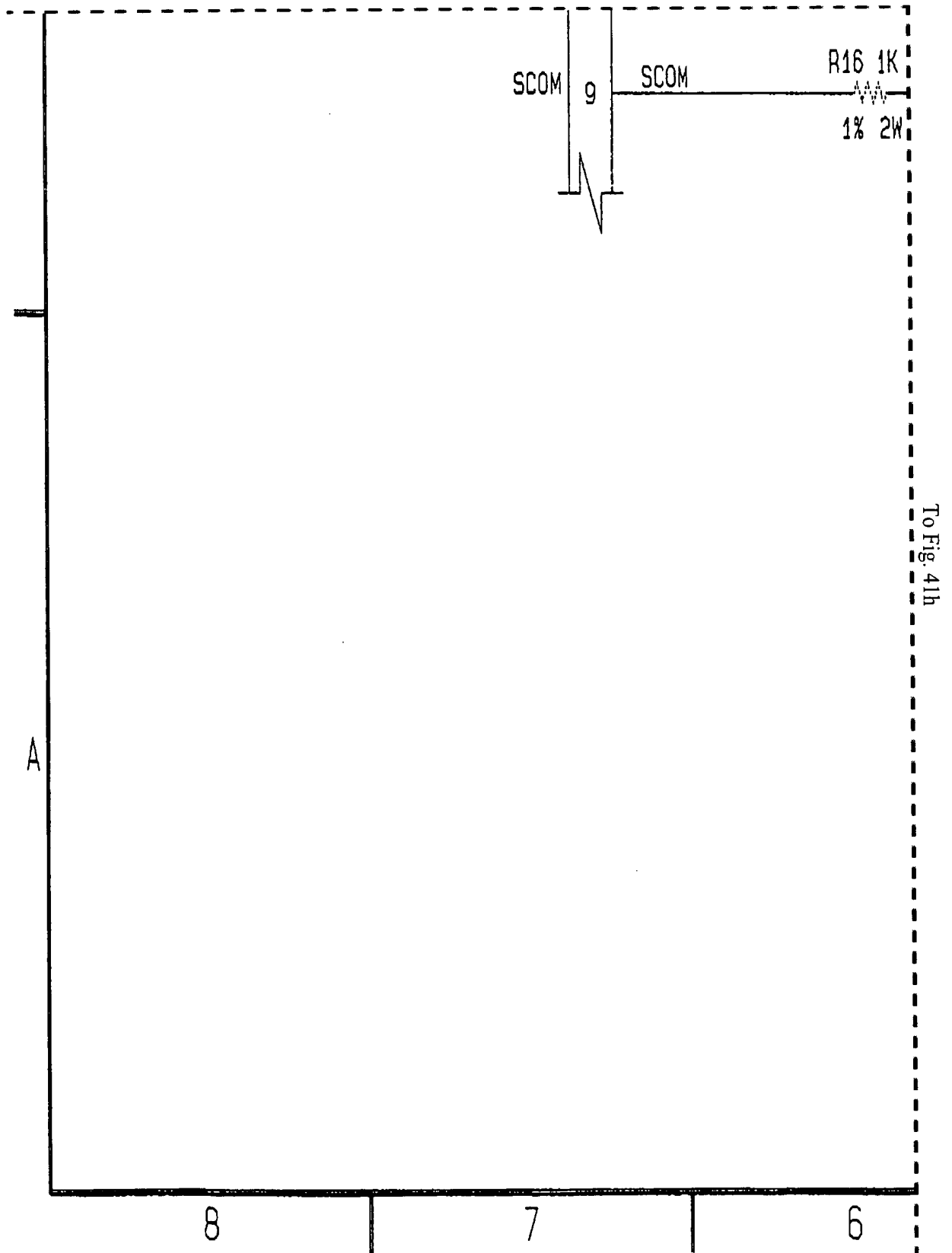


FIG. 41g

To Fig. 41e

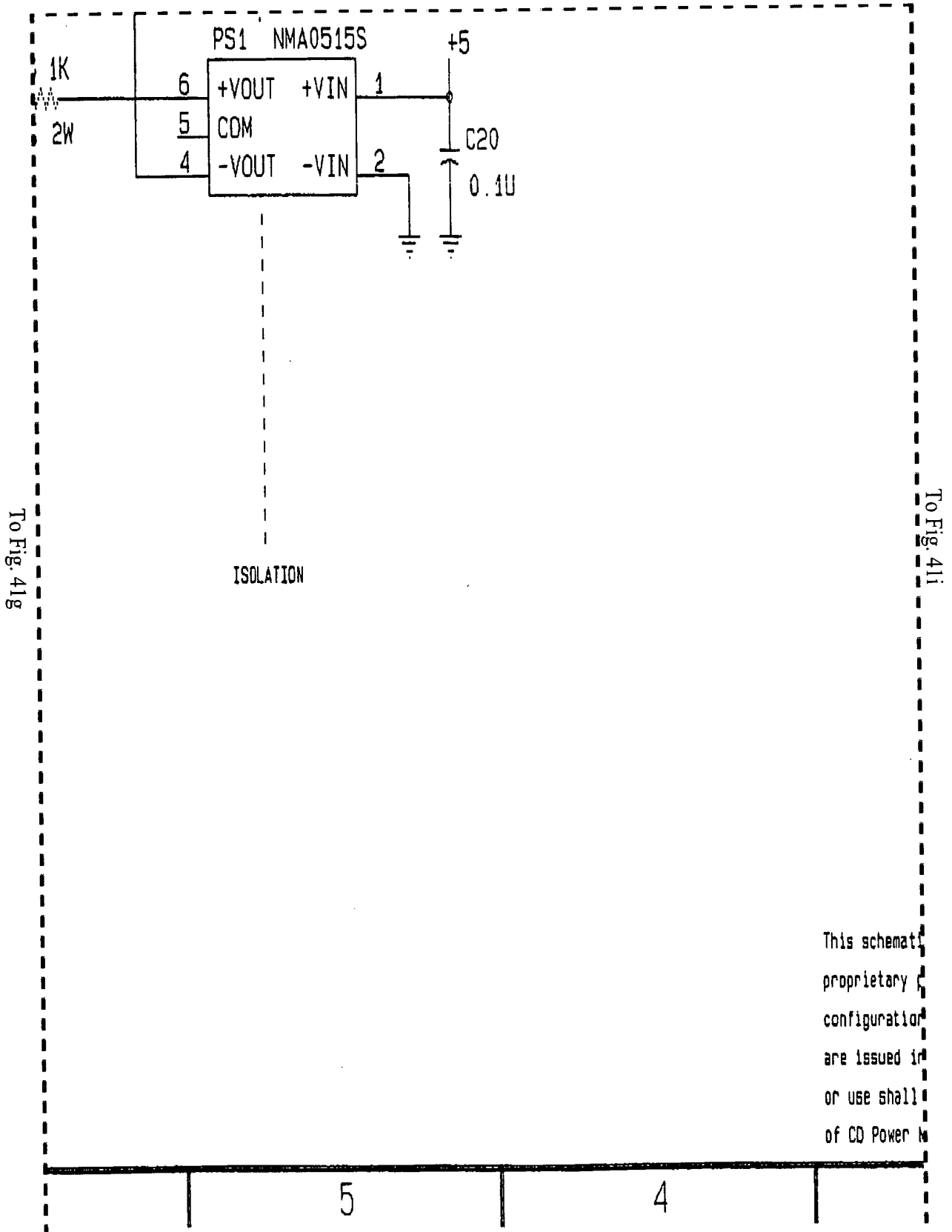


FIG. 41h

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To Fig. 41f

To Fig. 41h

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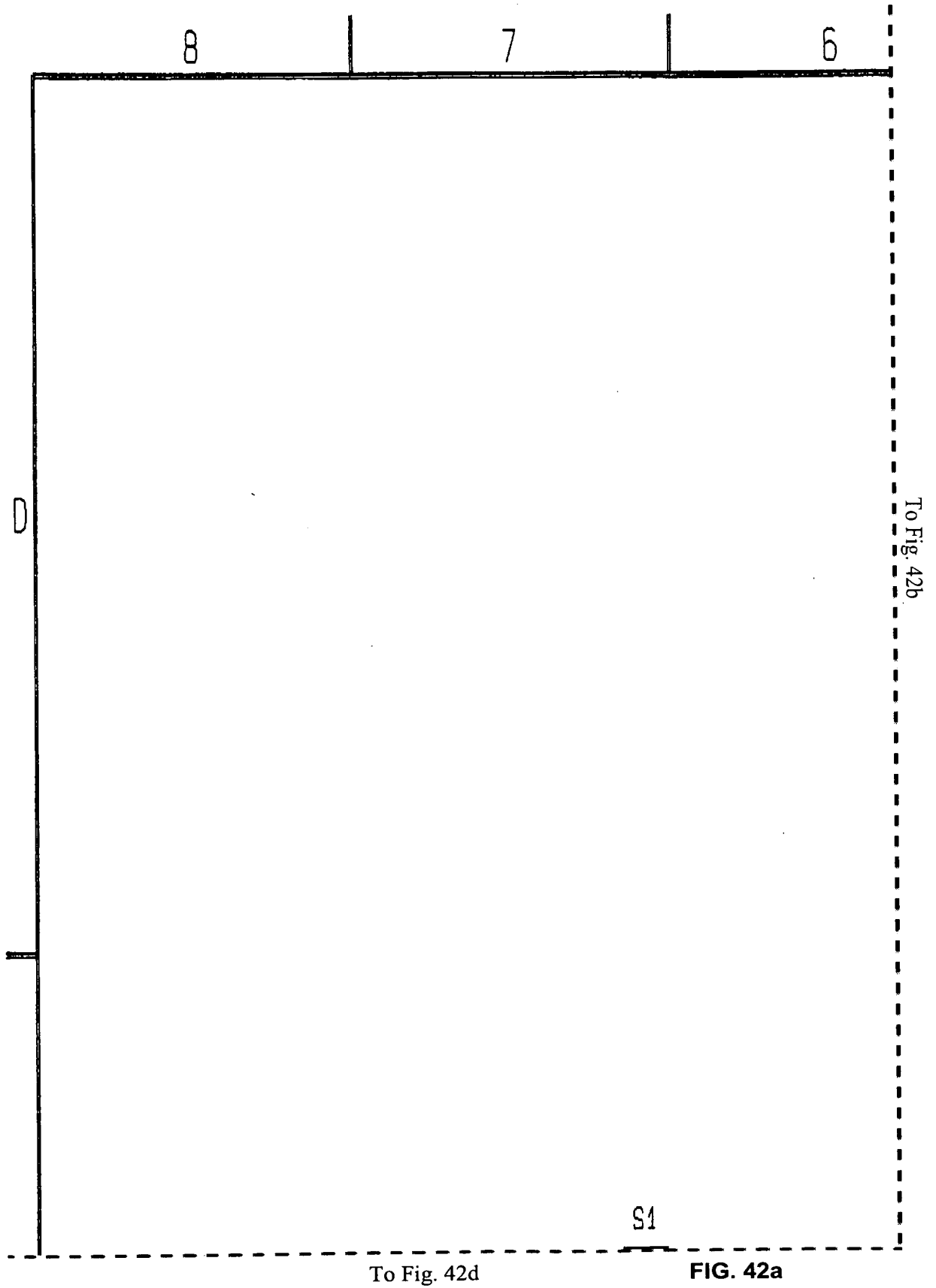
SHEET 4 OF 7

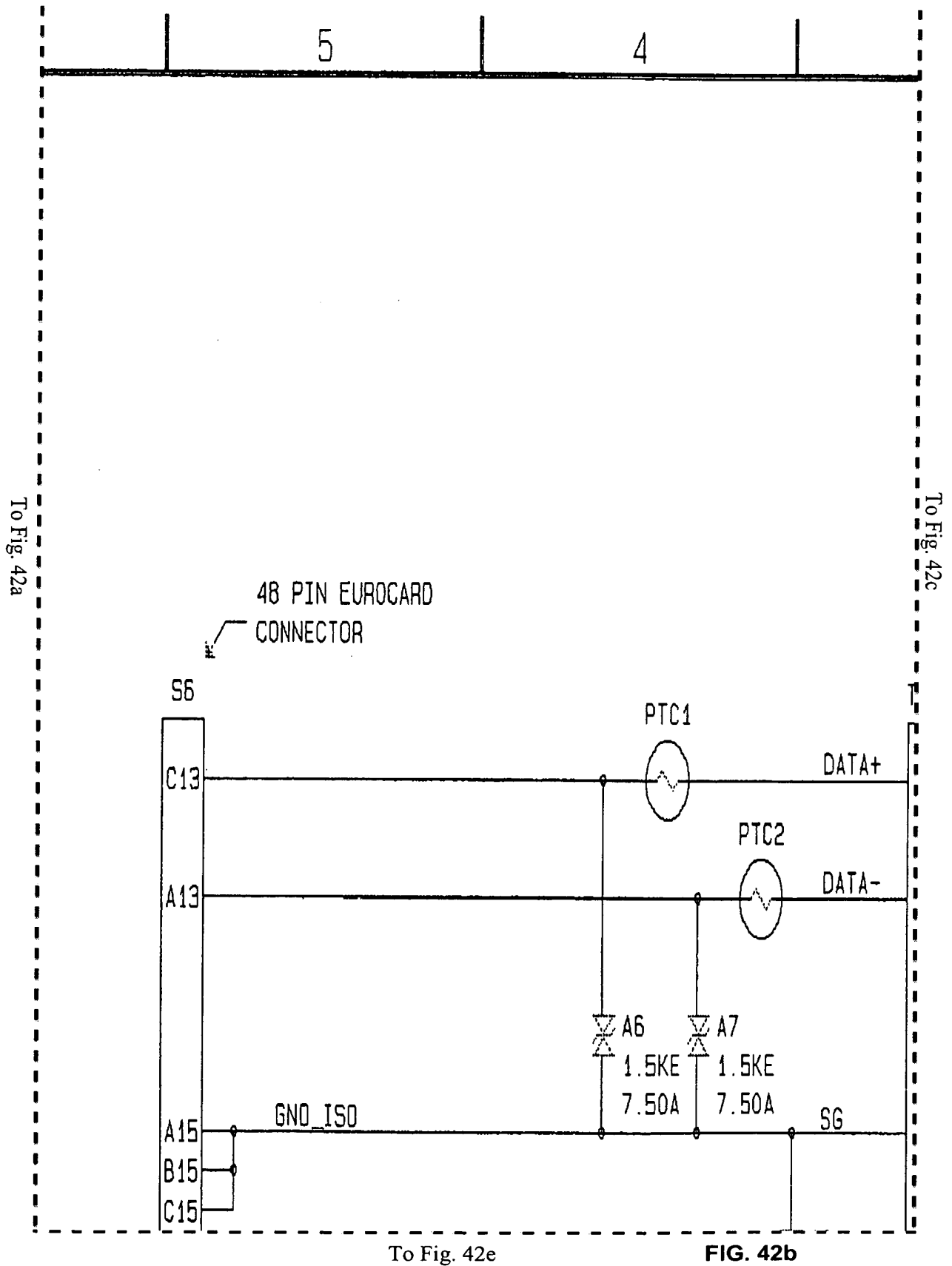
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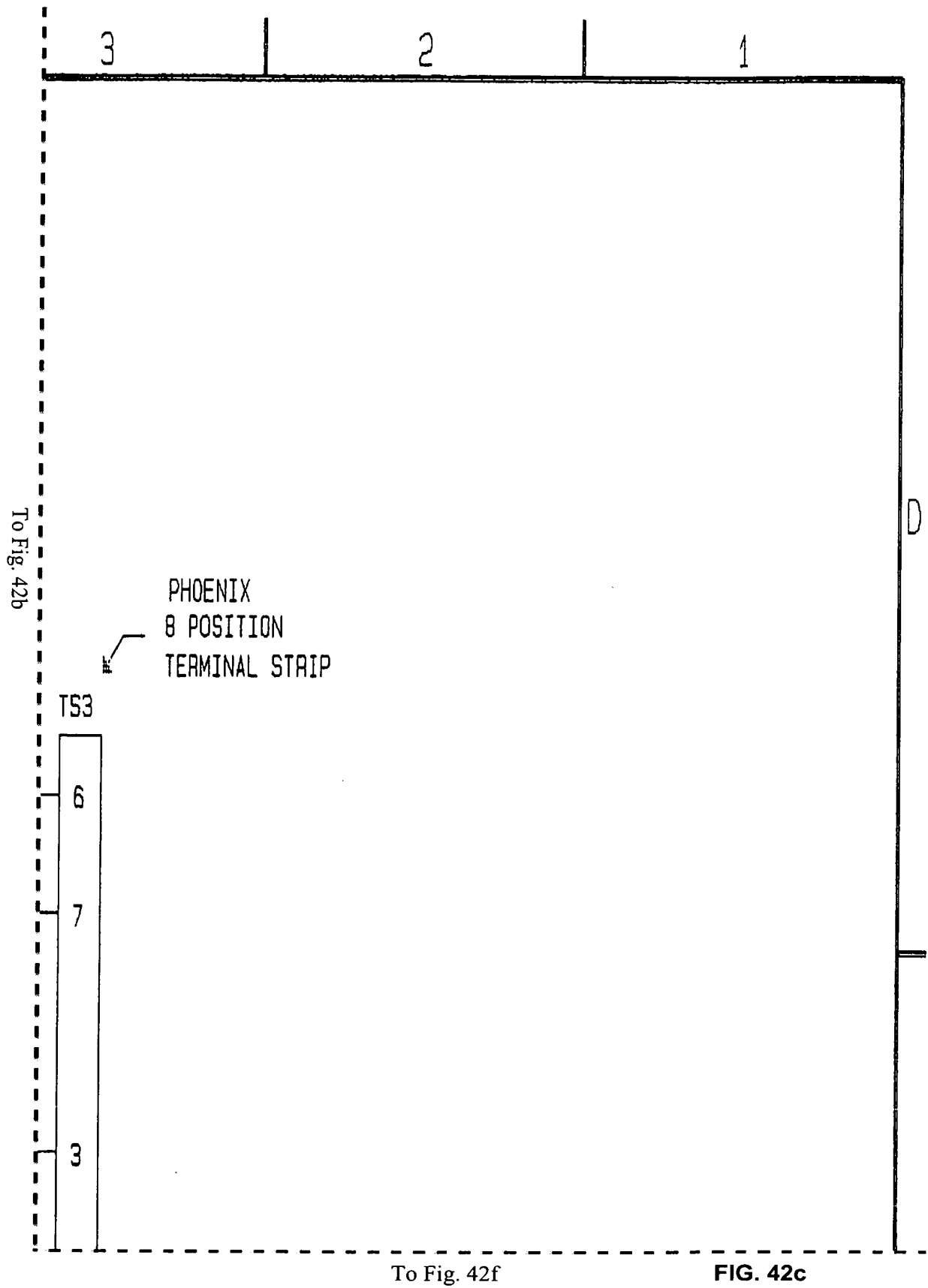
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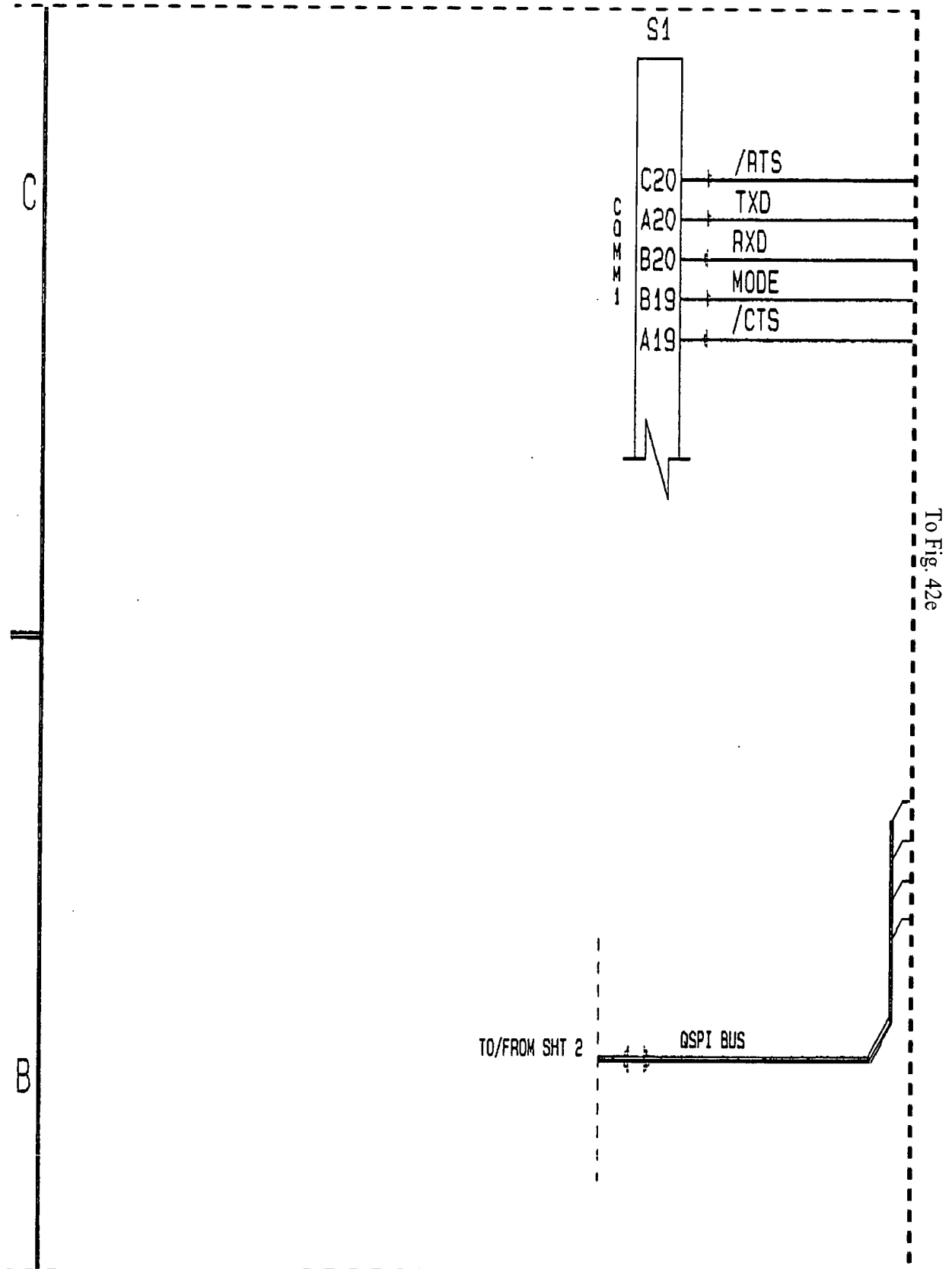
FIG. 41i







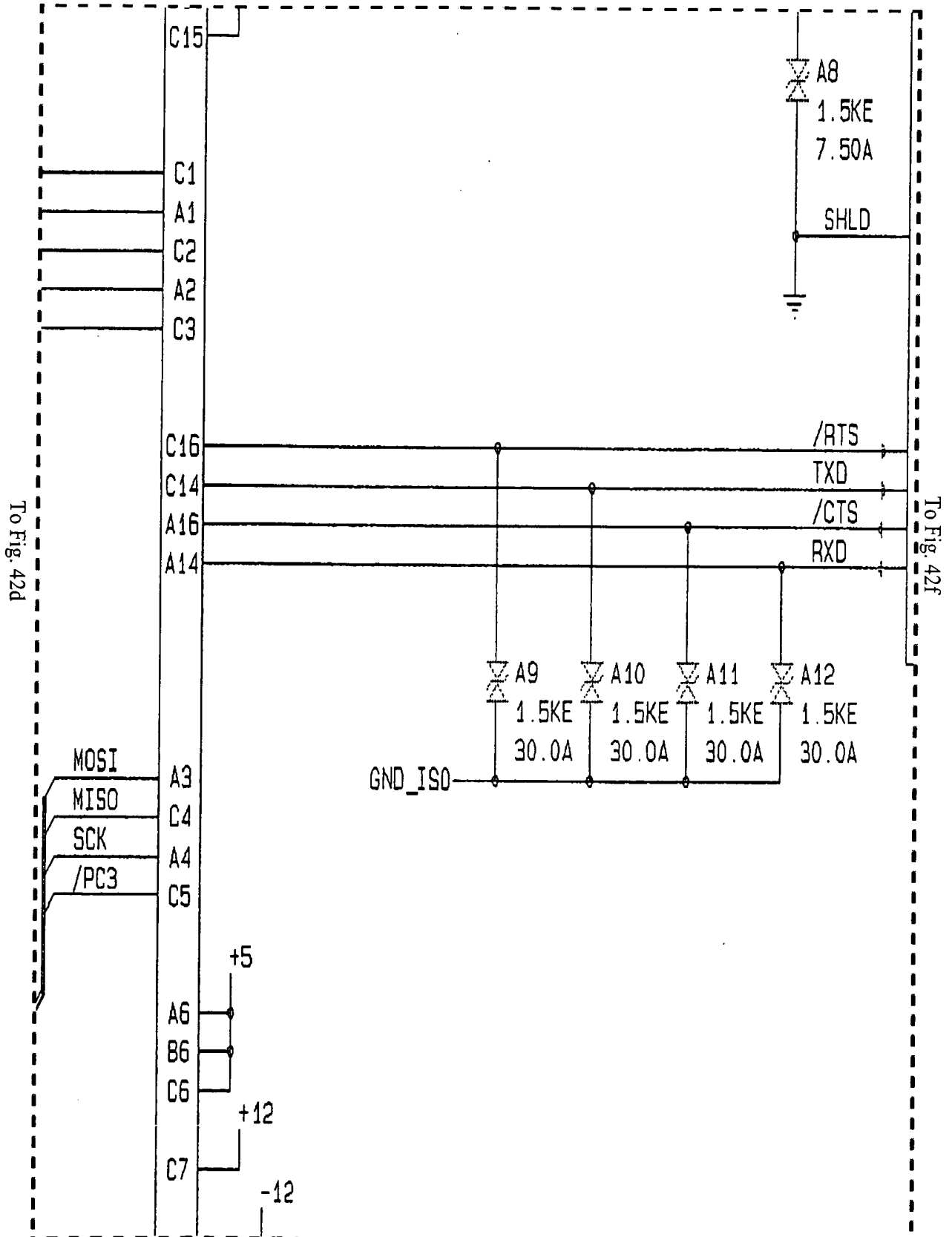
To Fig. 42a



To Fig. 42g

FIG. 42d

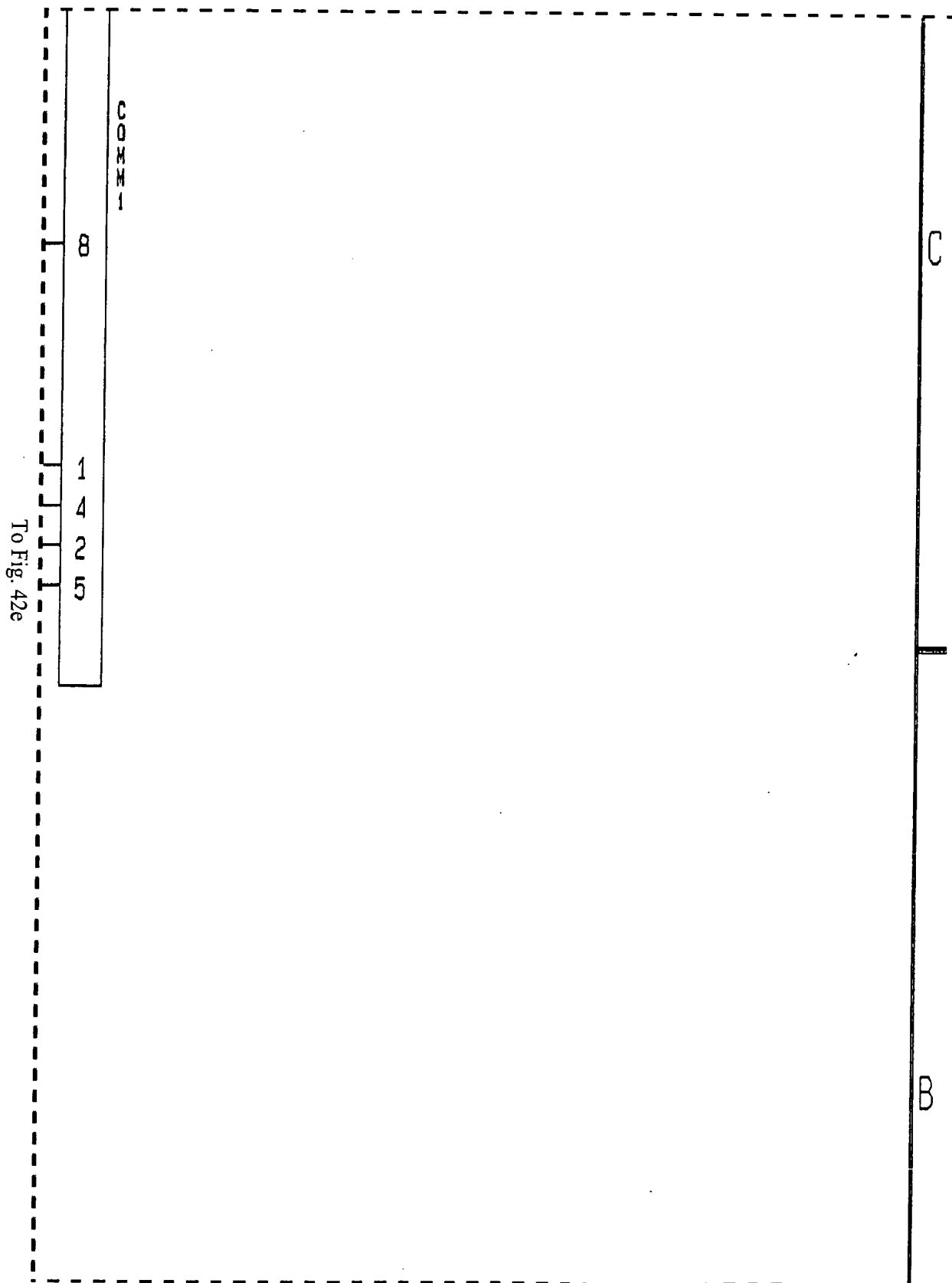
To Fig. 42b



To Fig. 42h

FIG. 42e

To Fig. 42c



To Fig. 42i

FIG. 42f

To Fig. 42d

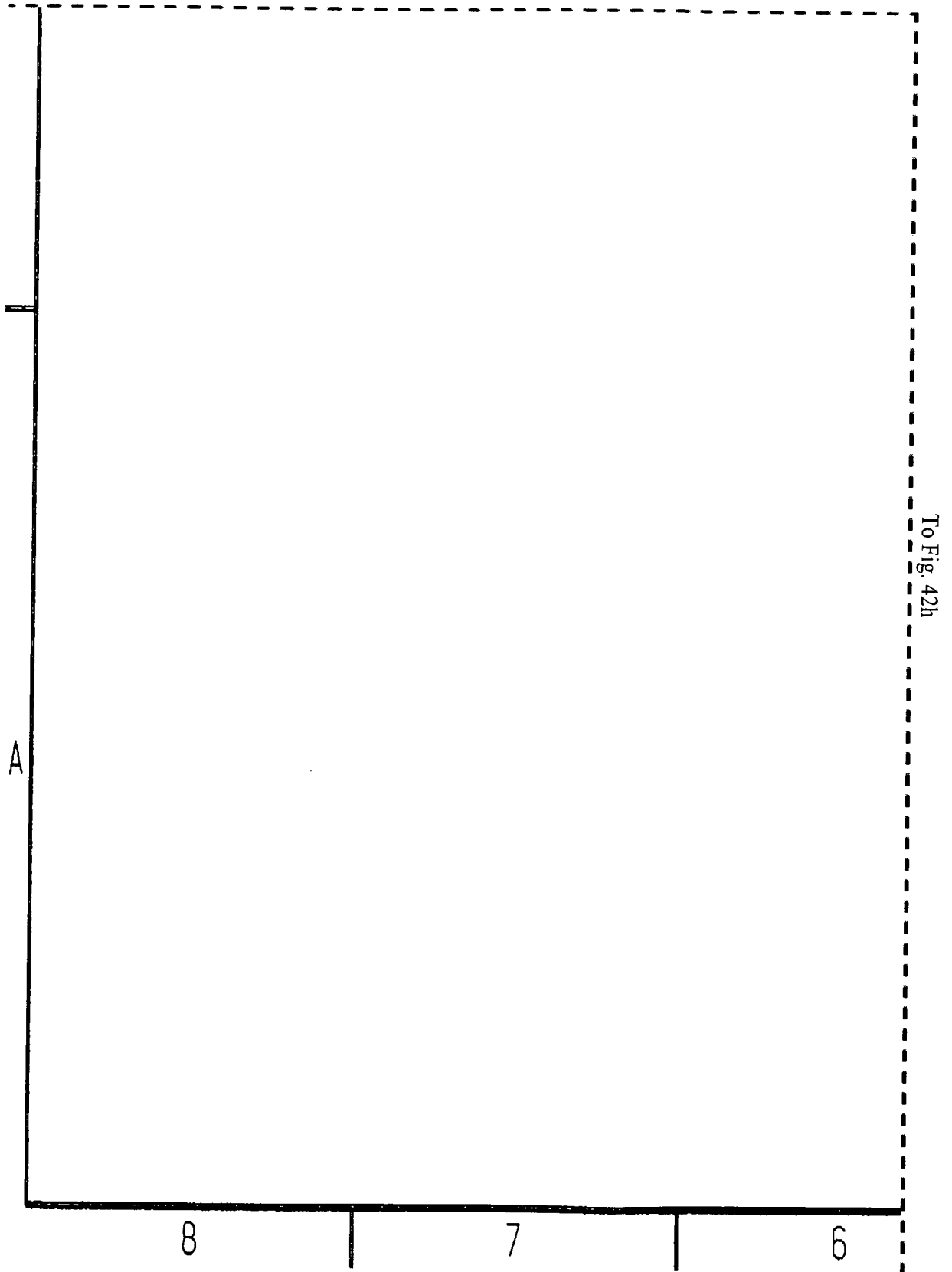
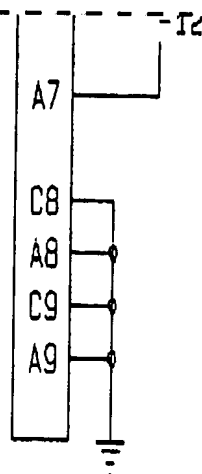


FIG. 42g

To Fig. 42e

To Fig. 42g

To Fig. 42i



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FIG. 42h

To Fig. 42f

To Fig. 42h

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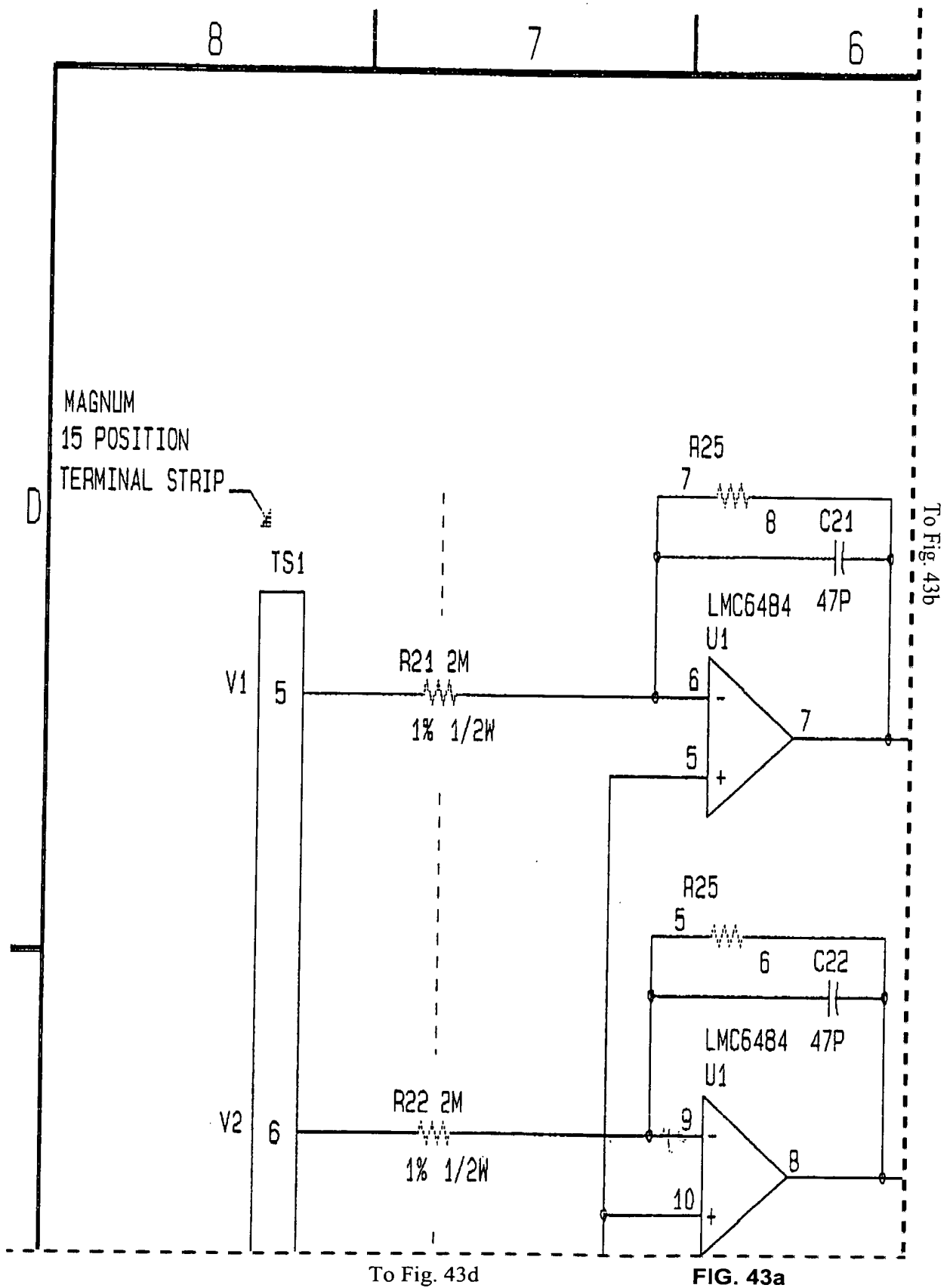
SHEET 5 OF 7

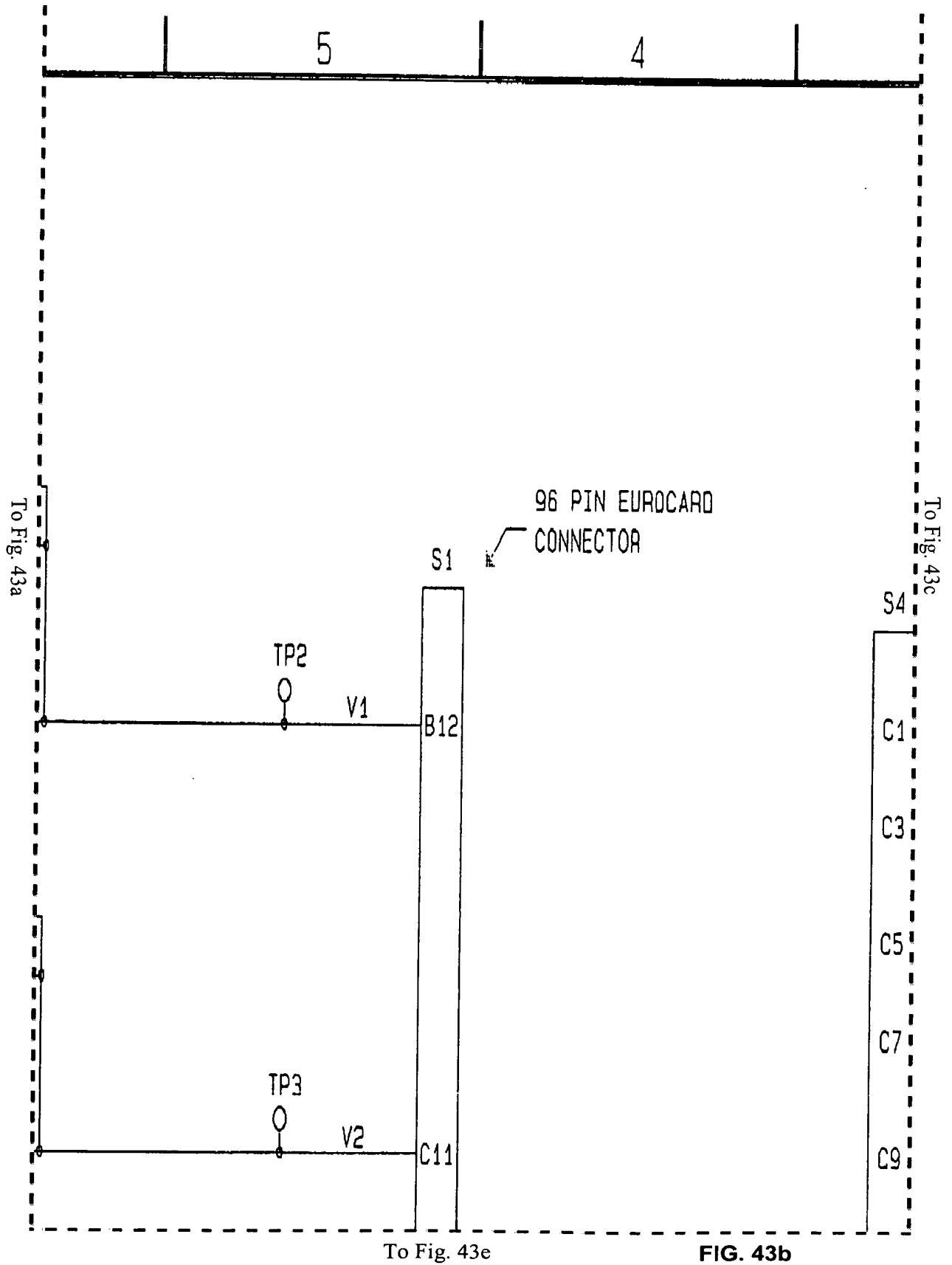
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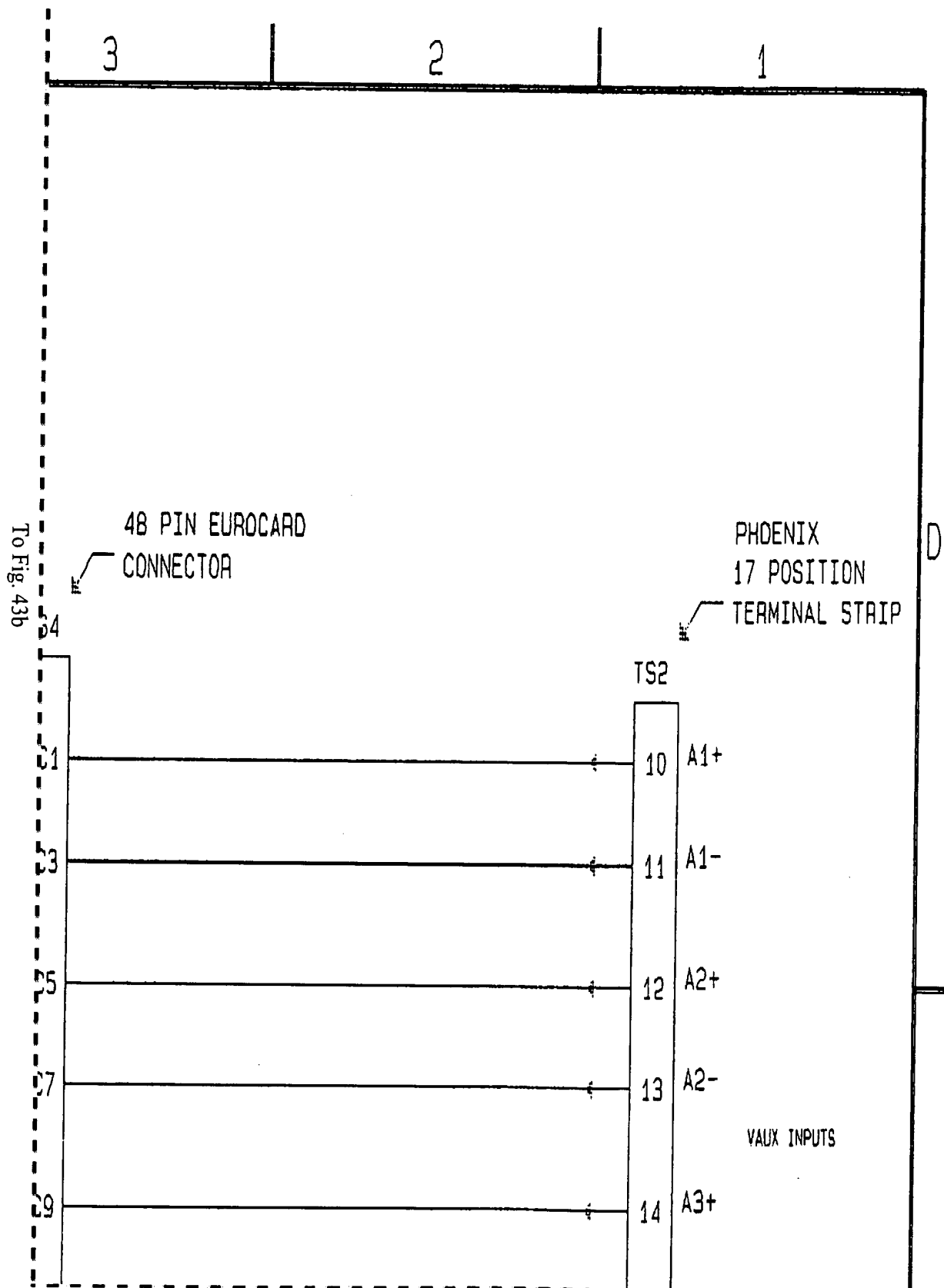
2

1

FIG. 42i

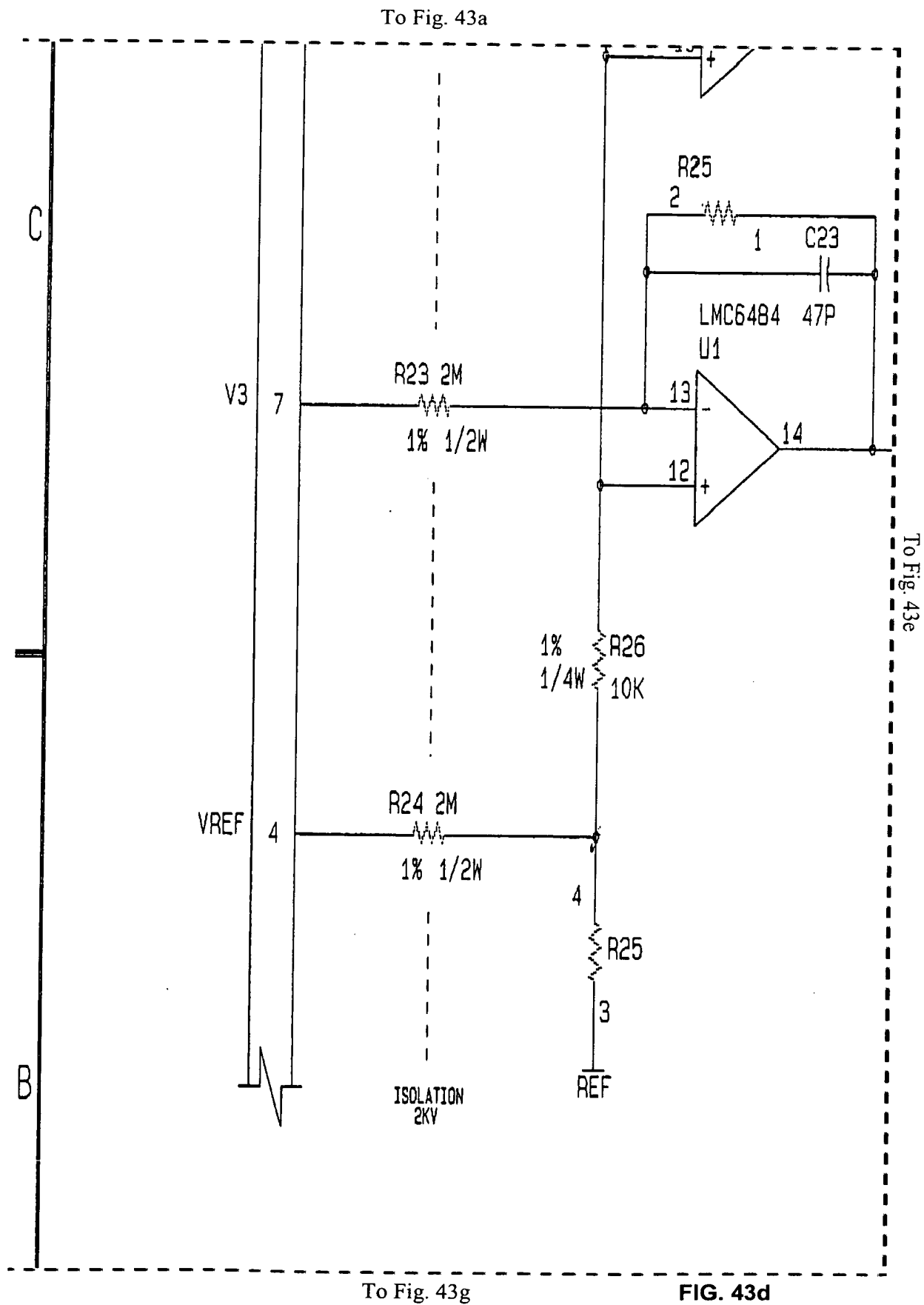






To Fig. 43f

FIG. 43c



To Fig. 43b

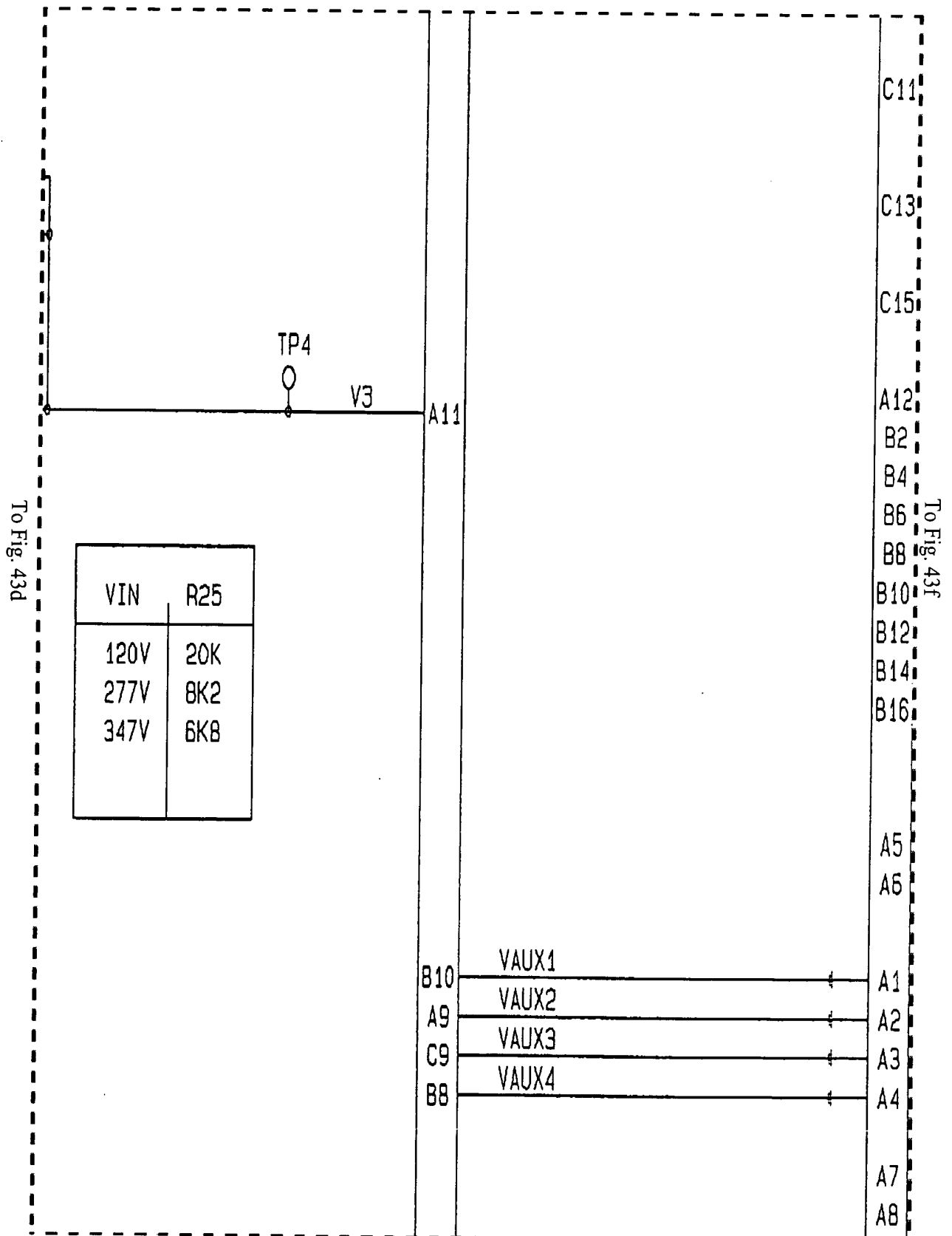
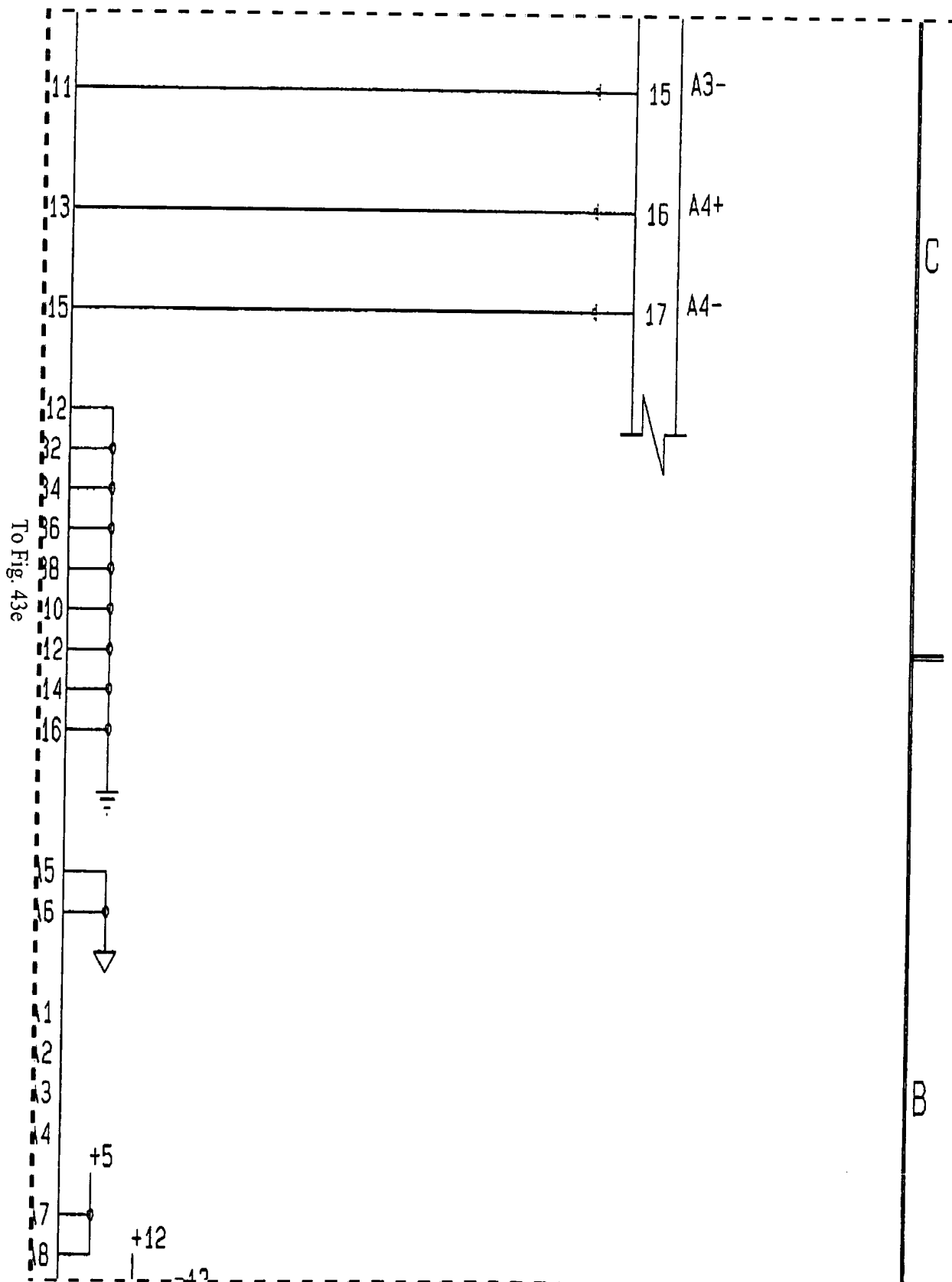


FIG. 43e

To Fig. 43c



To Fig. 43i

FIG. 43f

To Fig. 43d

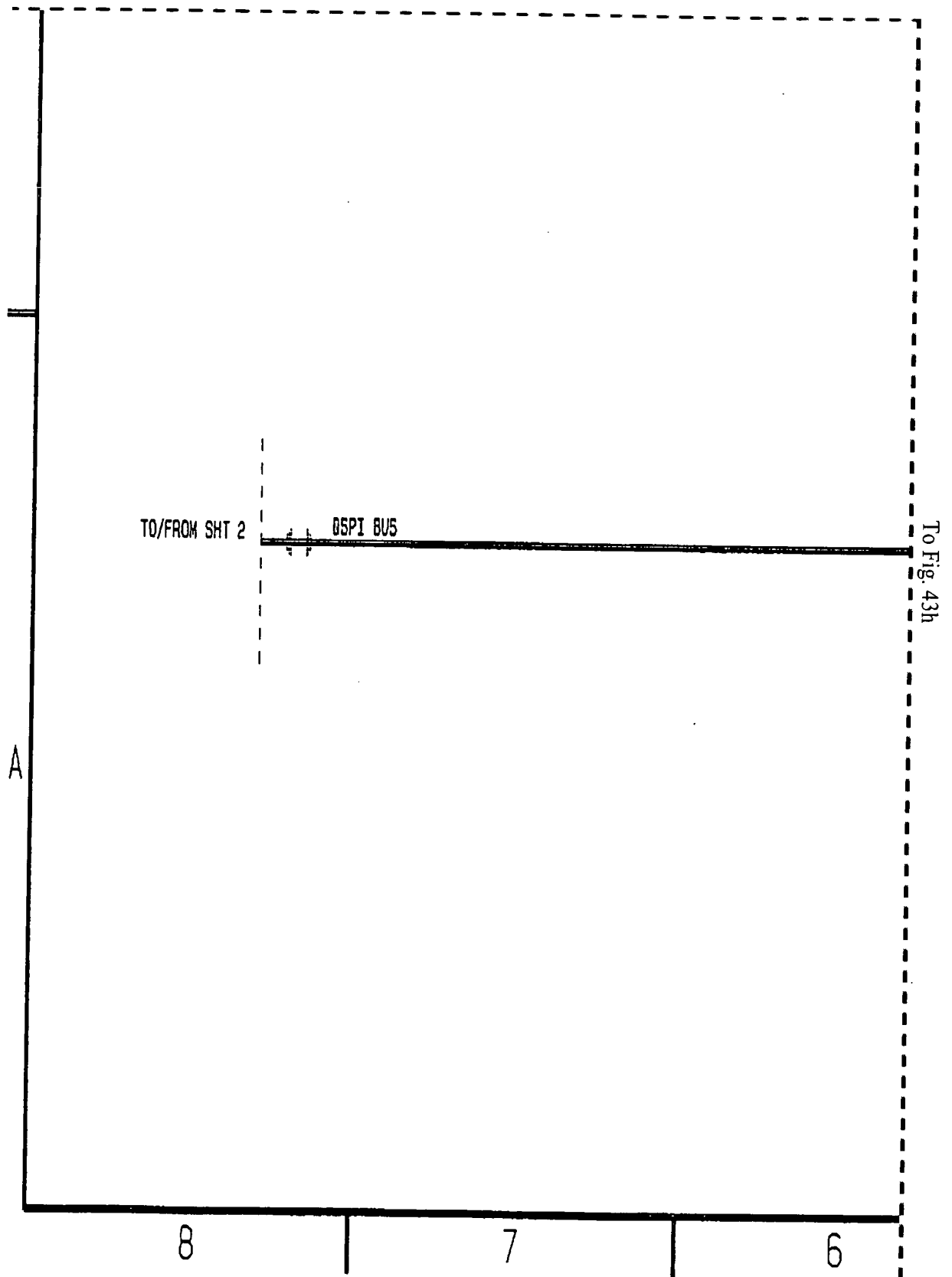


FIG. 43g

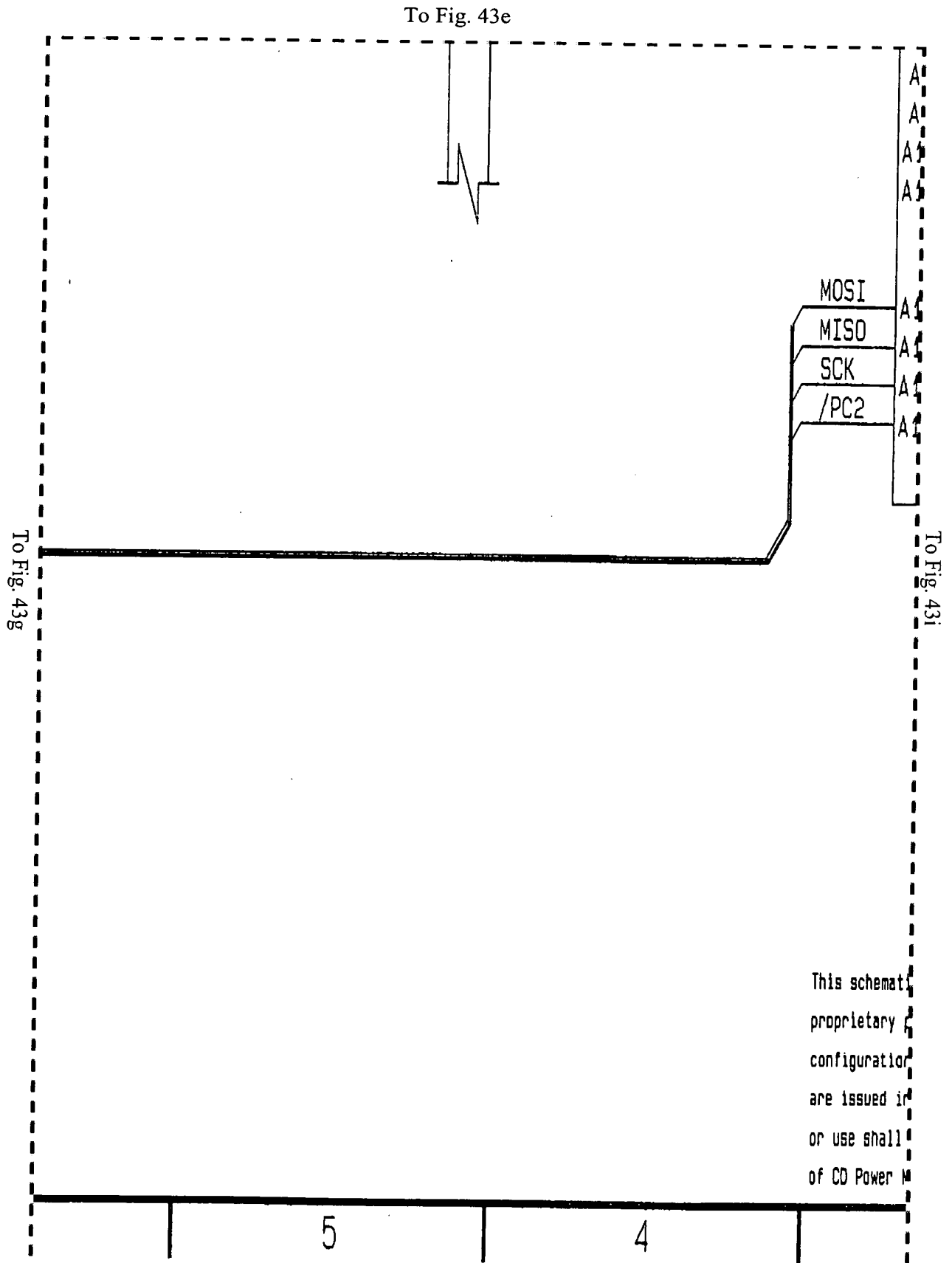


FIG. 43h

To Fig. 43f

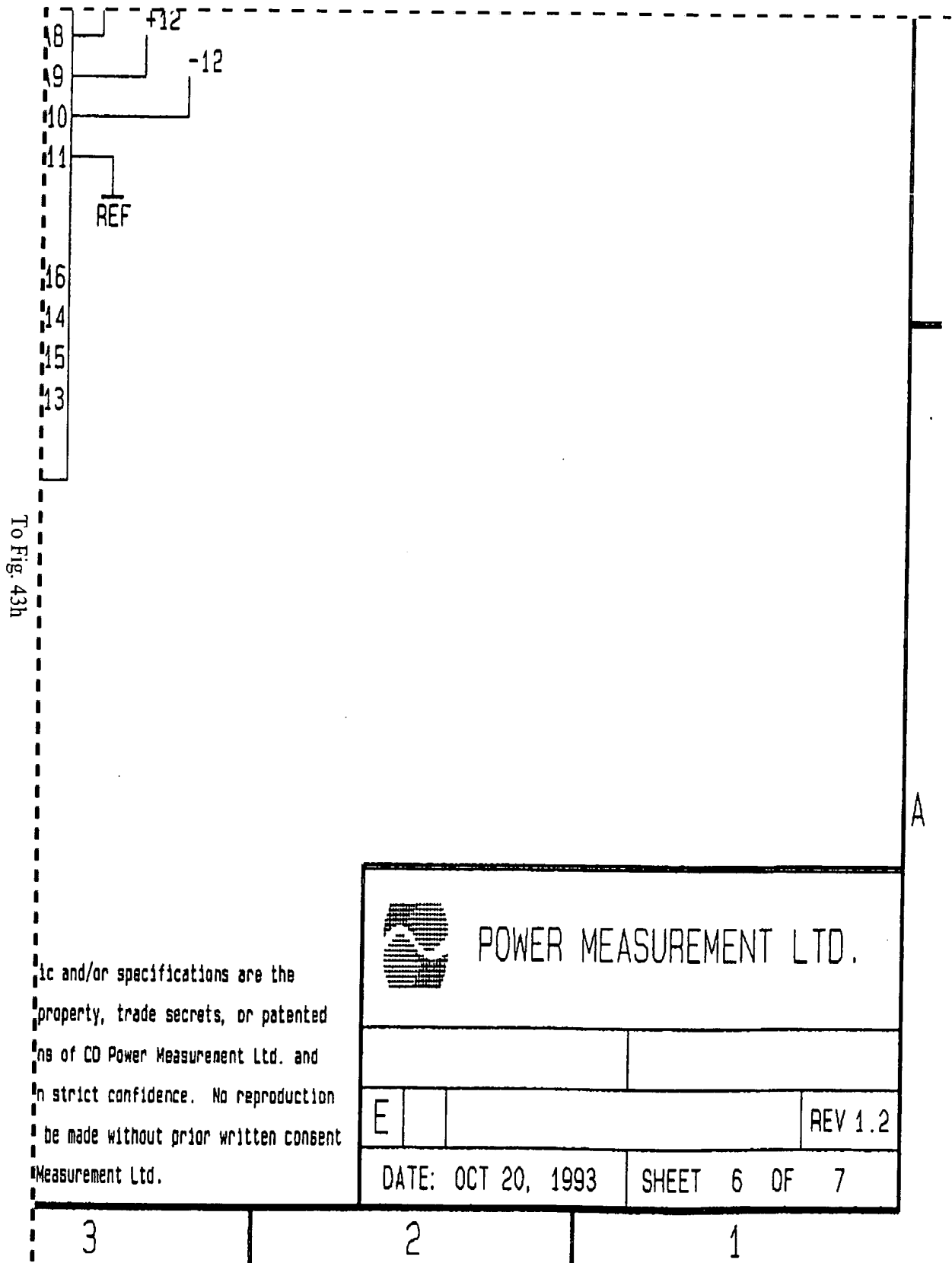
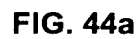
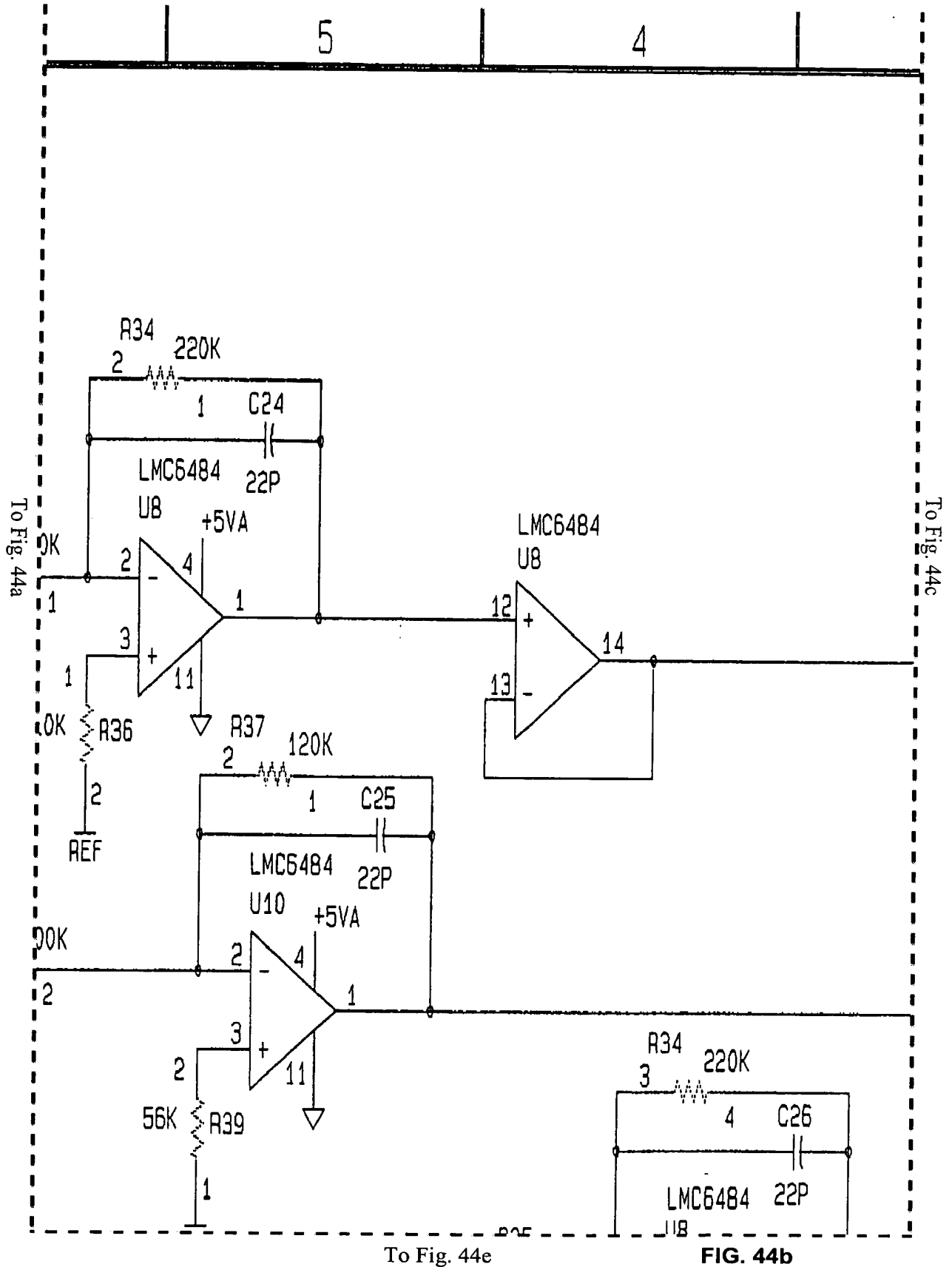
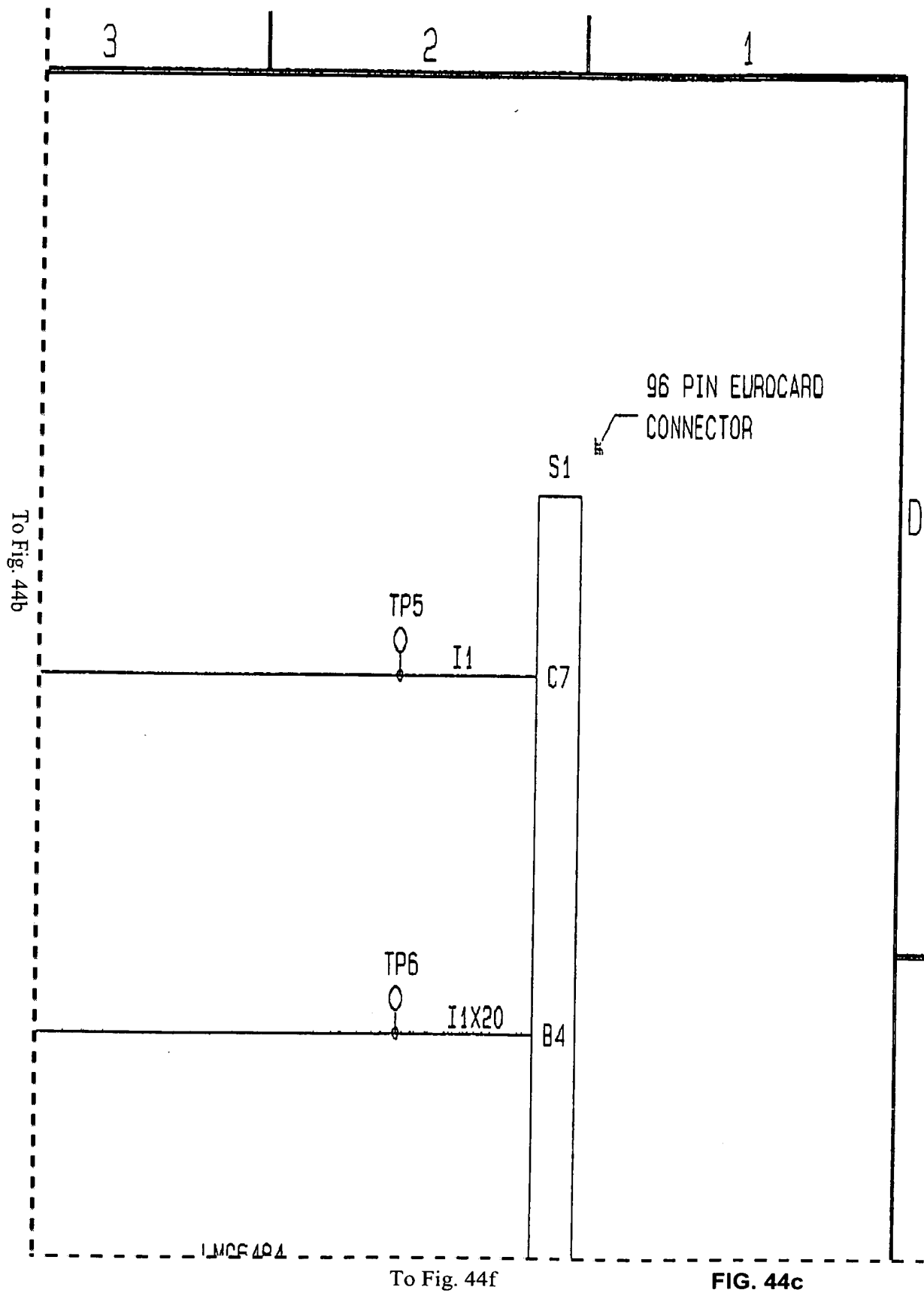
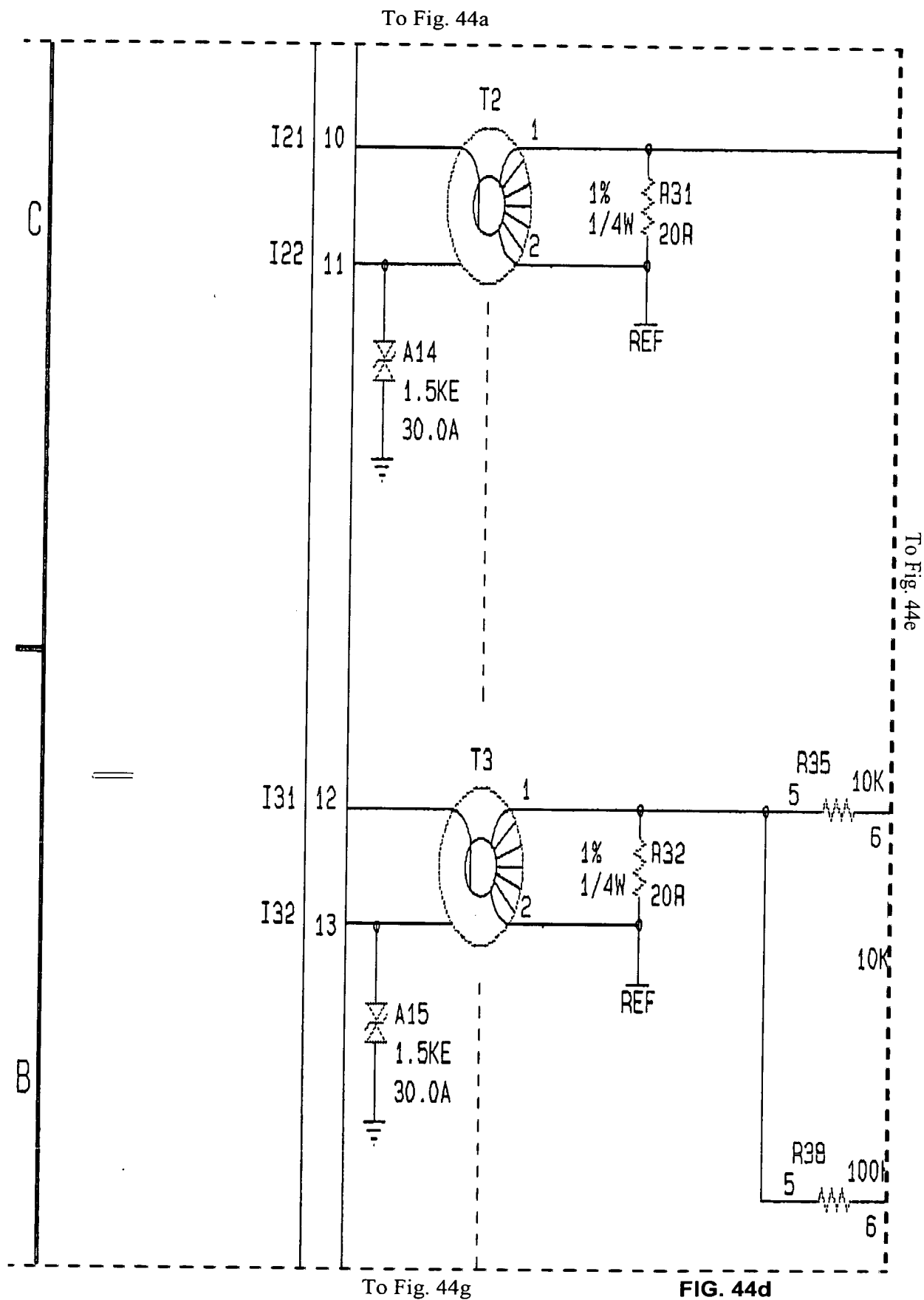


FIG. 43i



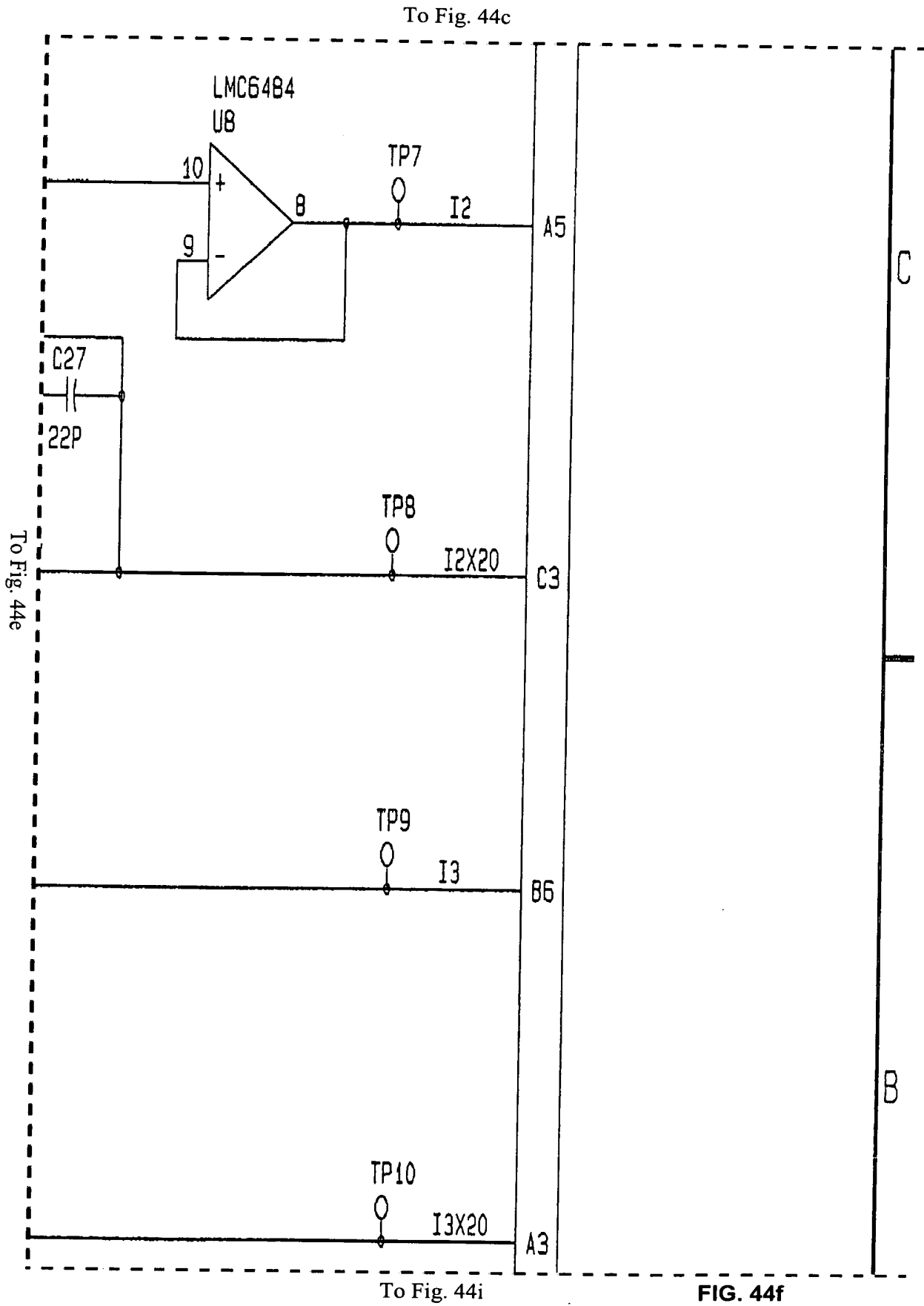


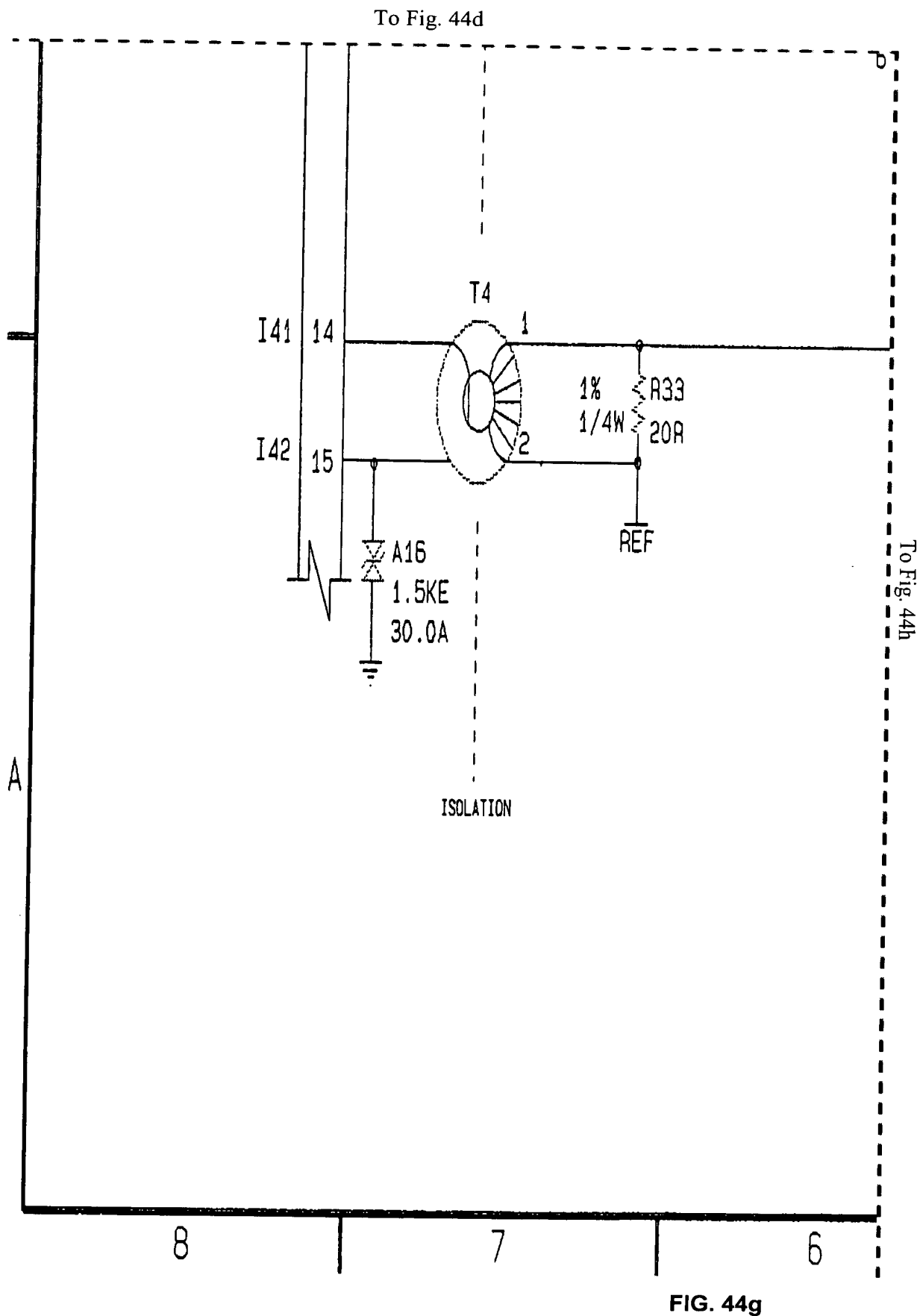


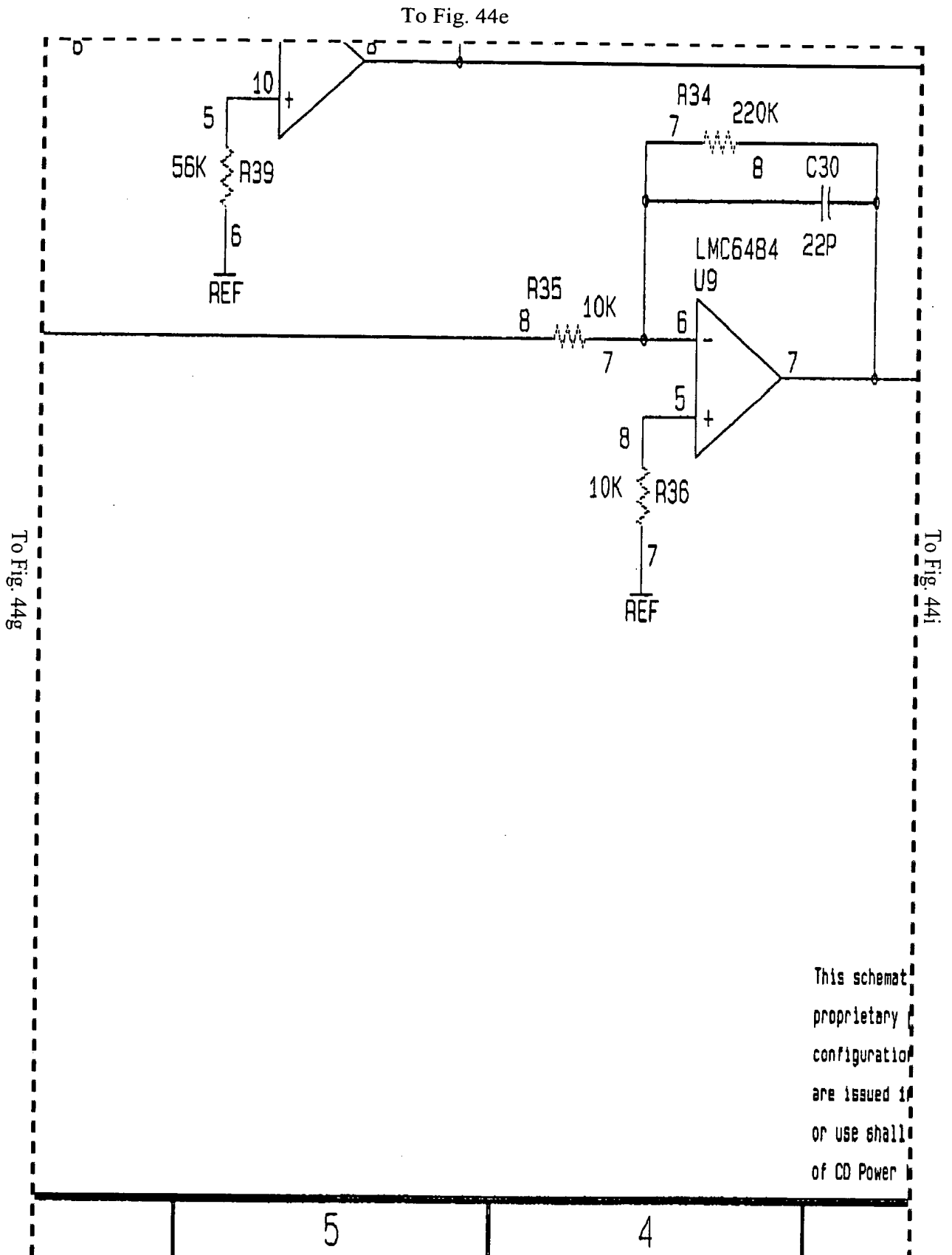


The circuit diagram shows three LMC6484 op-amp stages. Stage U8 is configured as a non-inverting amplifier with a gain of 2, using a 10K resistor (R35) for feedback and a 10K resistor (R36) to ground. Stage U9 is configured as a voltage follower. Stage U10 is configured as an inverting amplifier with a gain of -1, using a 120K resistor (R37) for feedback and a 120K resistor (R38) to ground. The circuit also includes a 22pF capacitor (C28) and a 22pF capacitor (C29) connected to the REF pin. The circuit is powered by a +5V supply and a REF pin.

FIG. 44e







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FIG. 44h

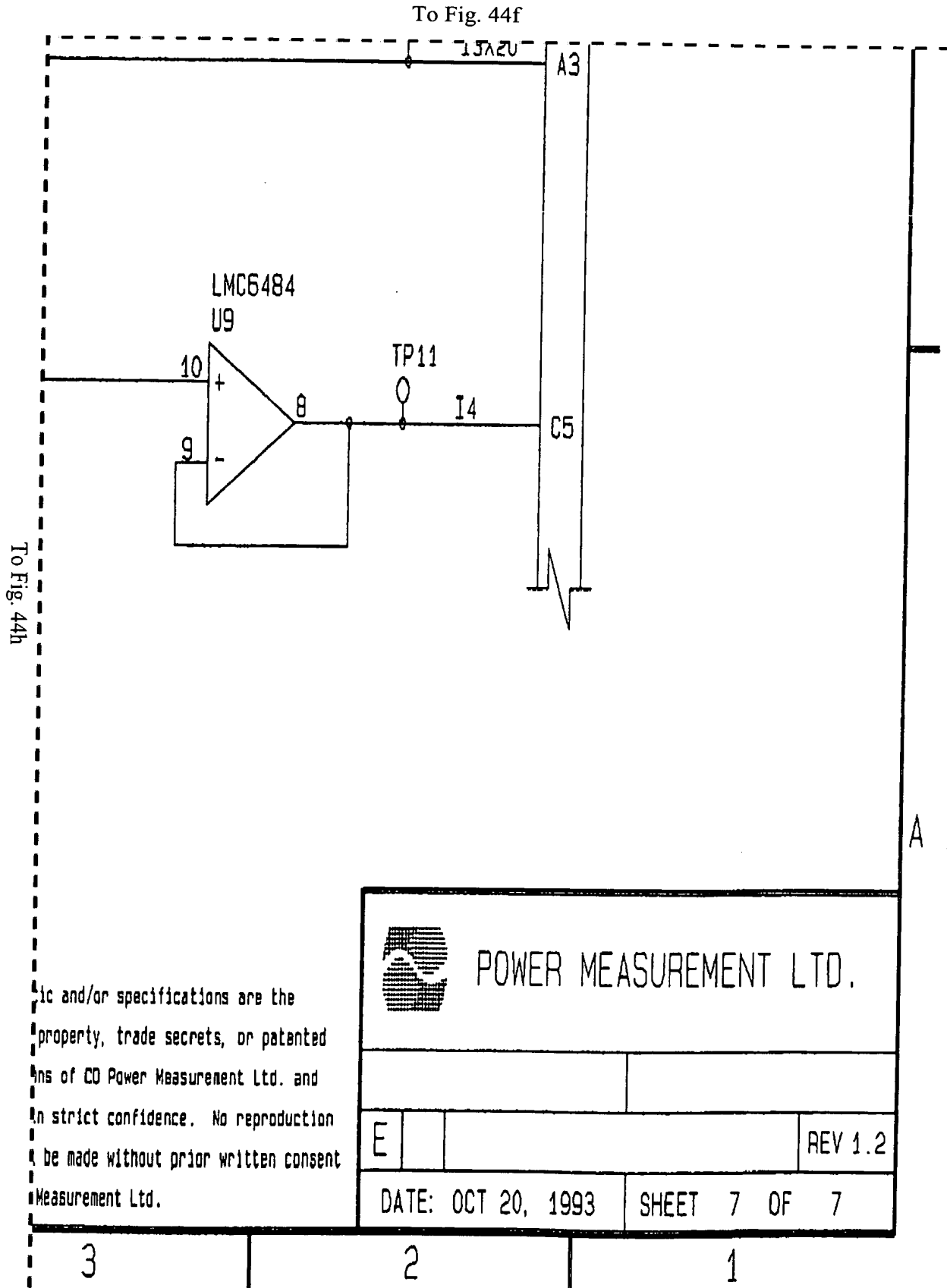
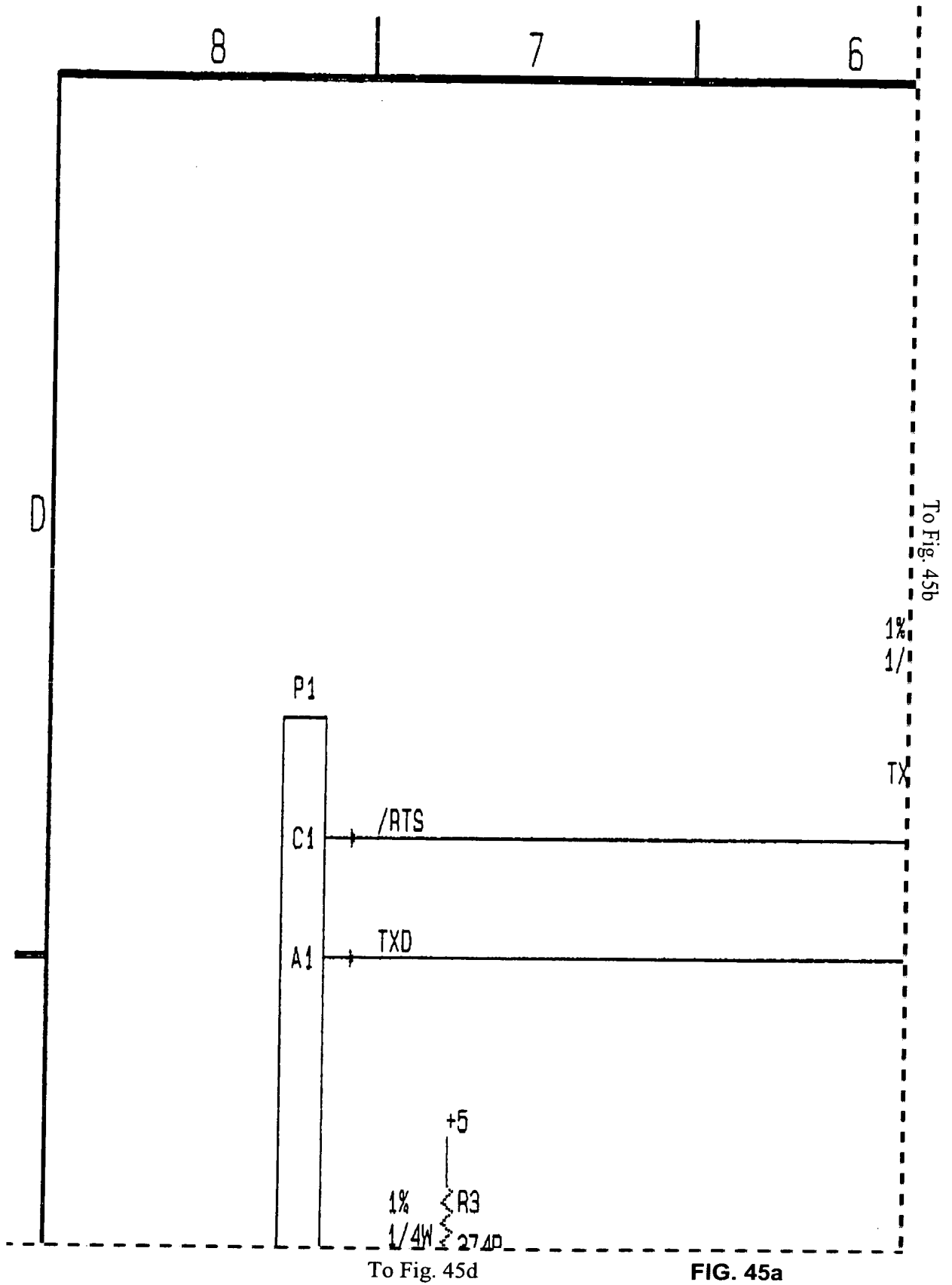
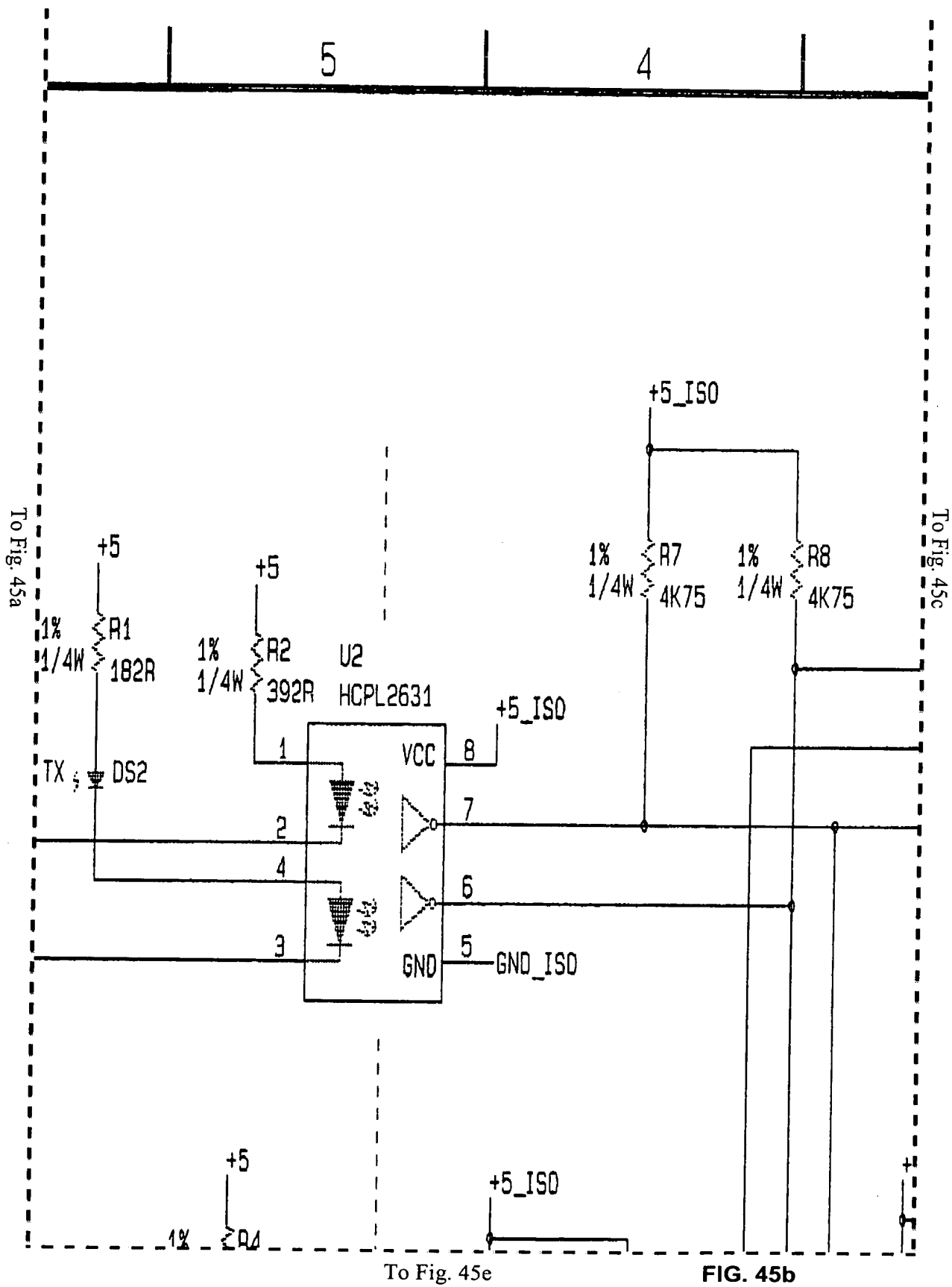
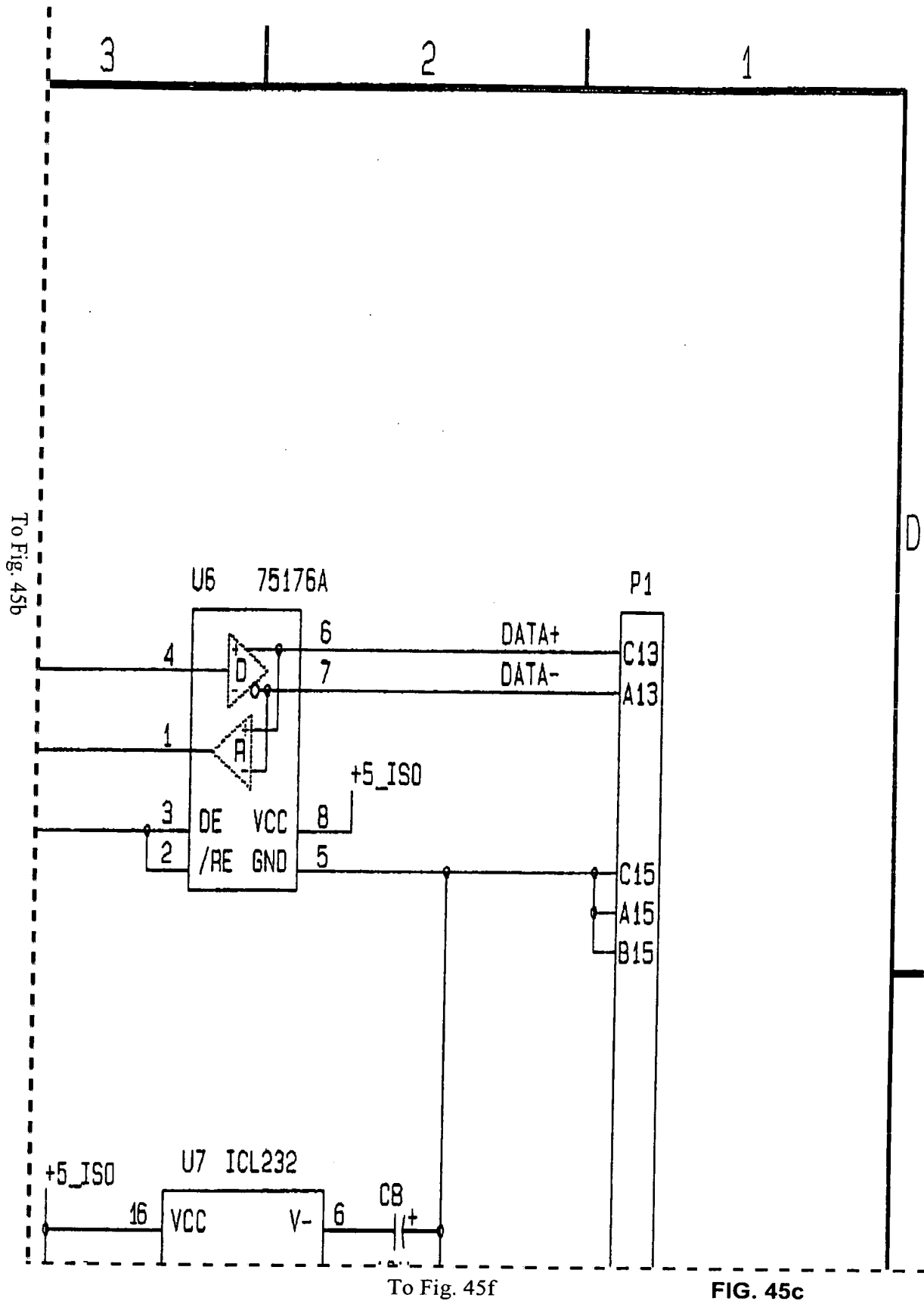


FIG. 44i

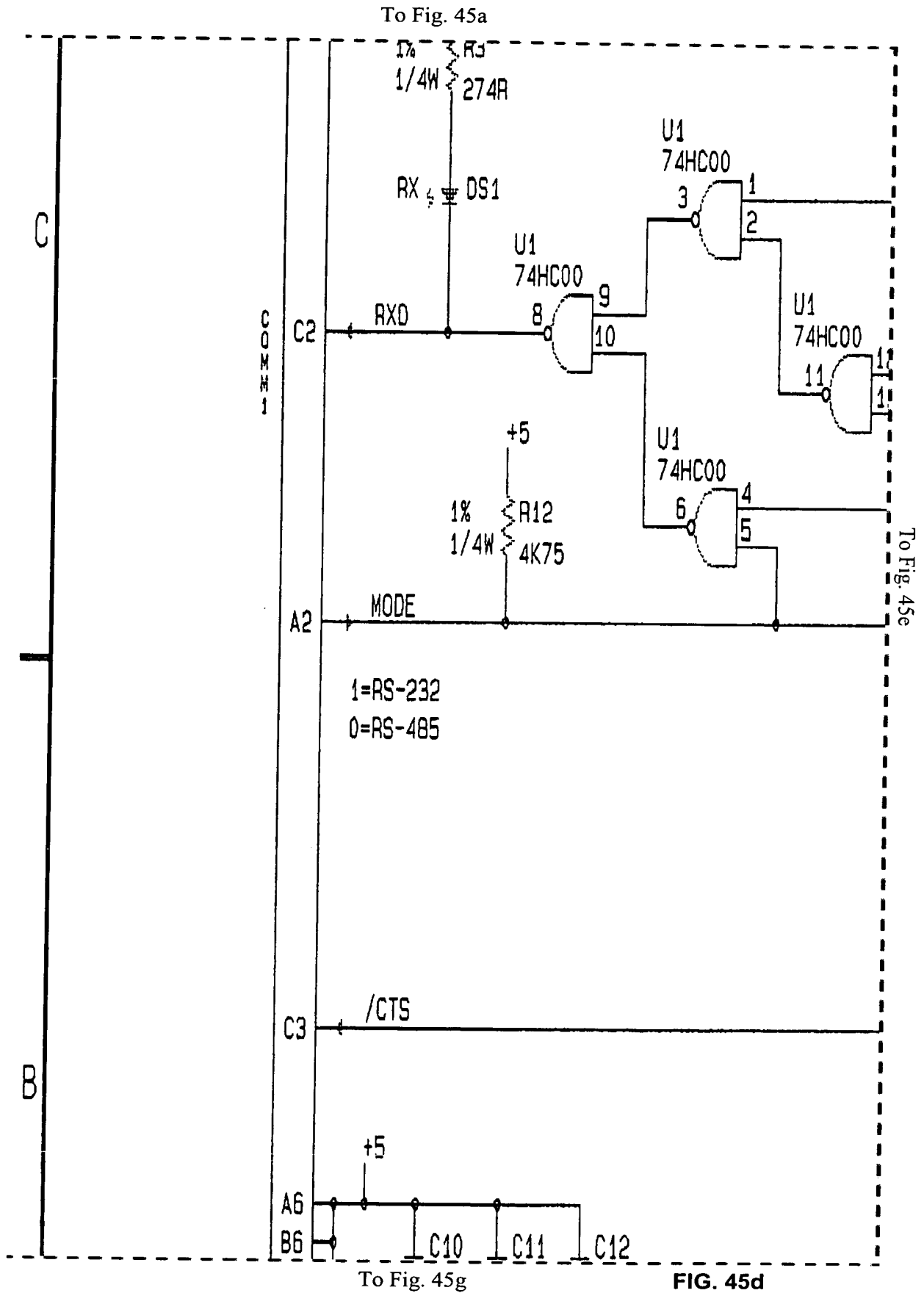


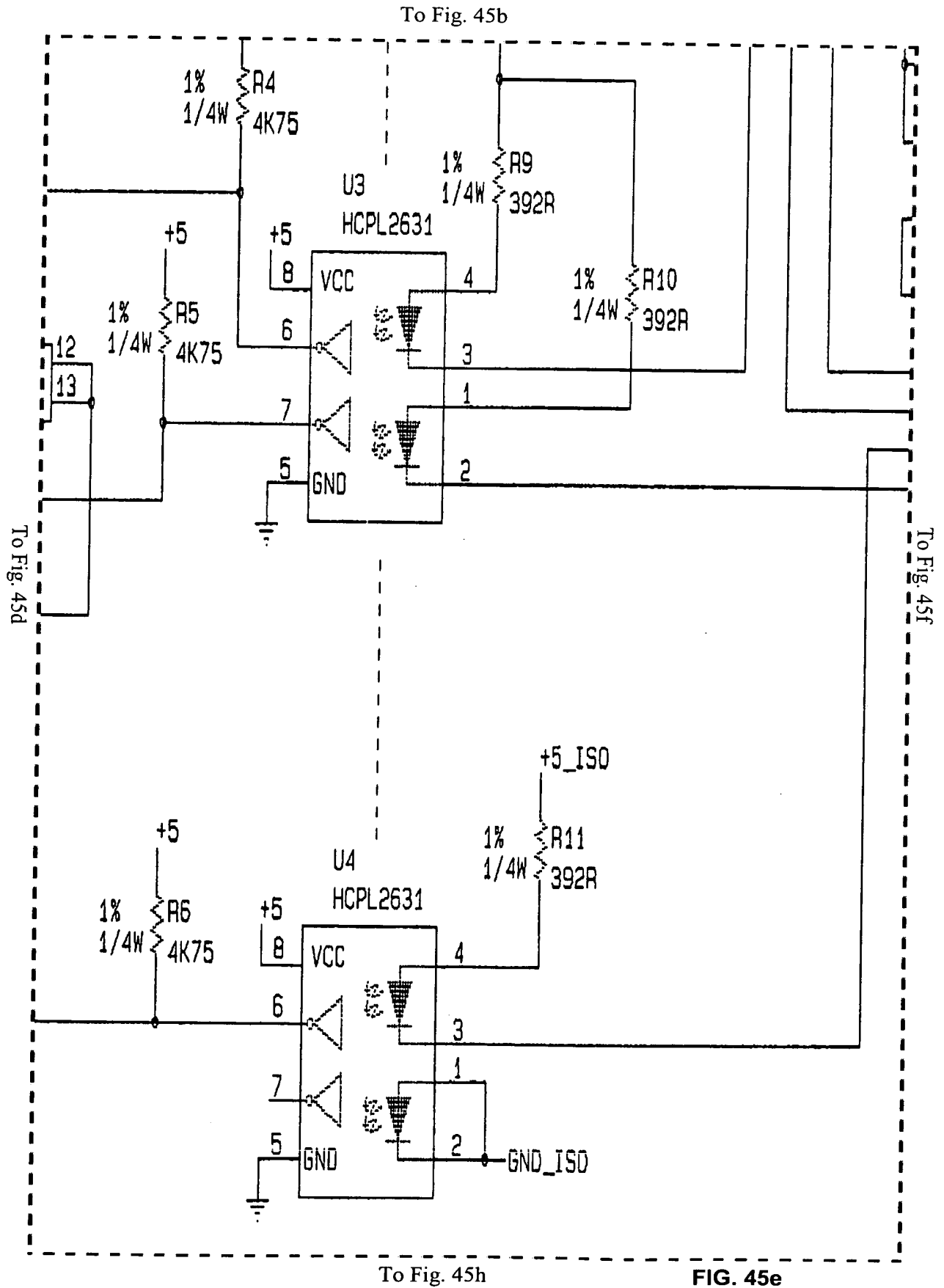


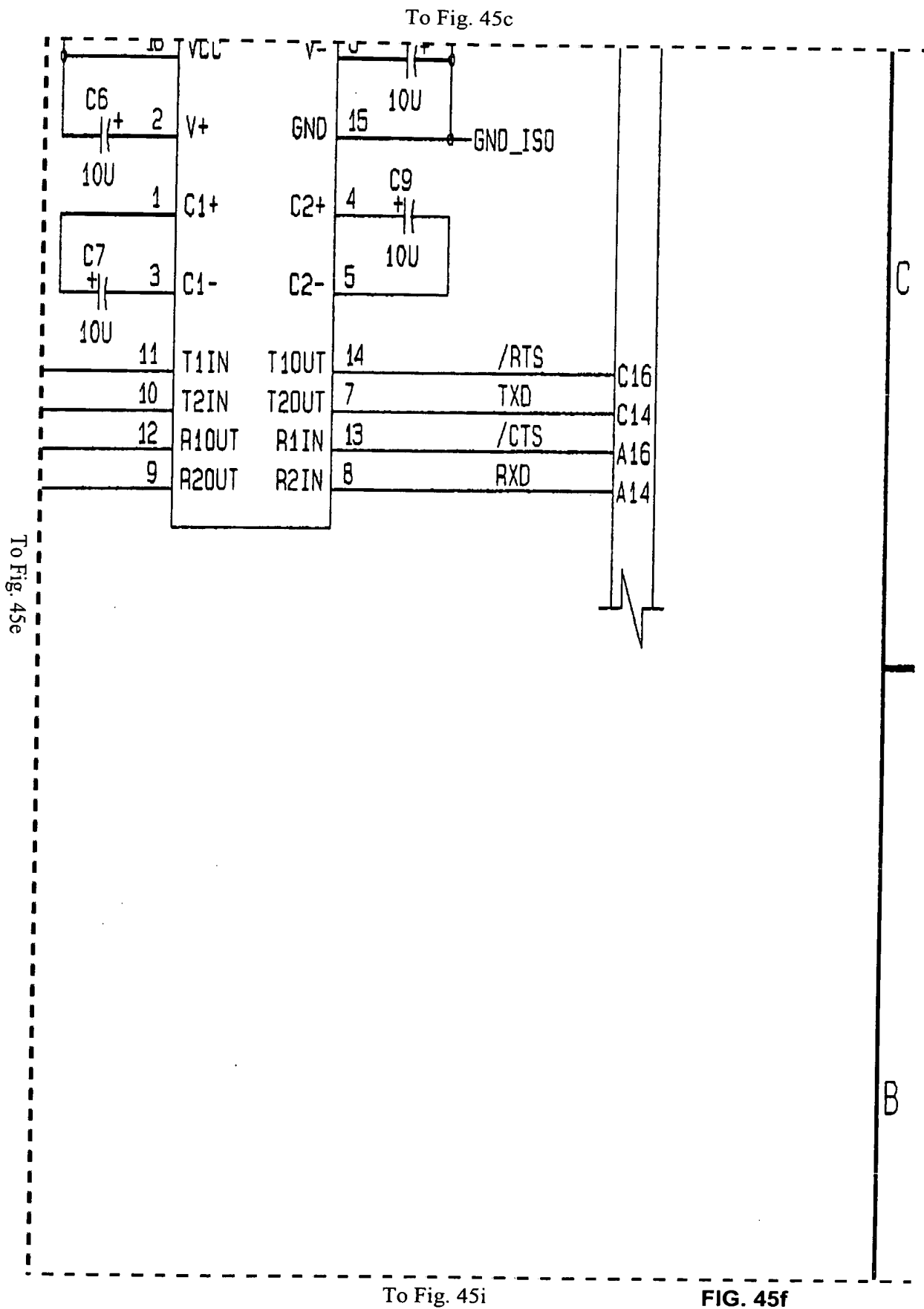


To Fig. 45f

FIG. 45c







To Fig. 45d

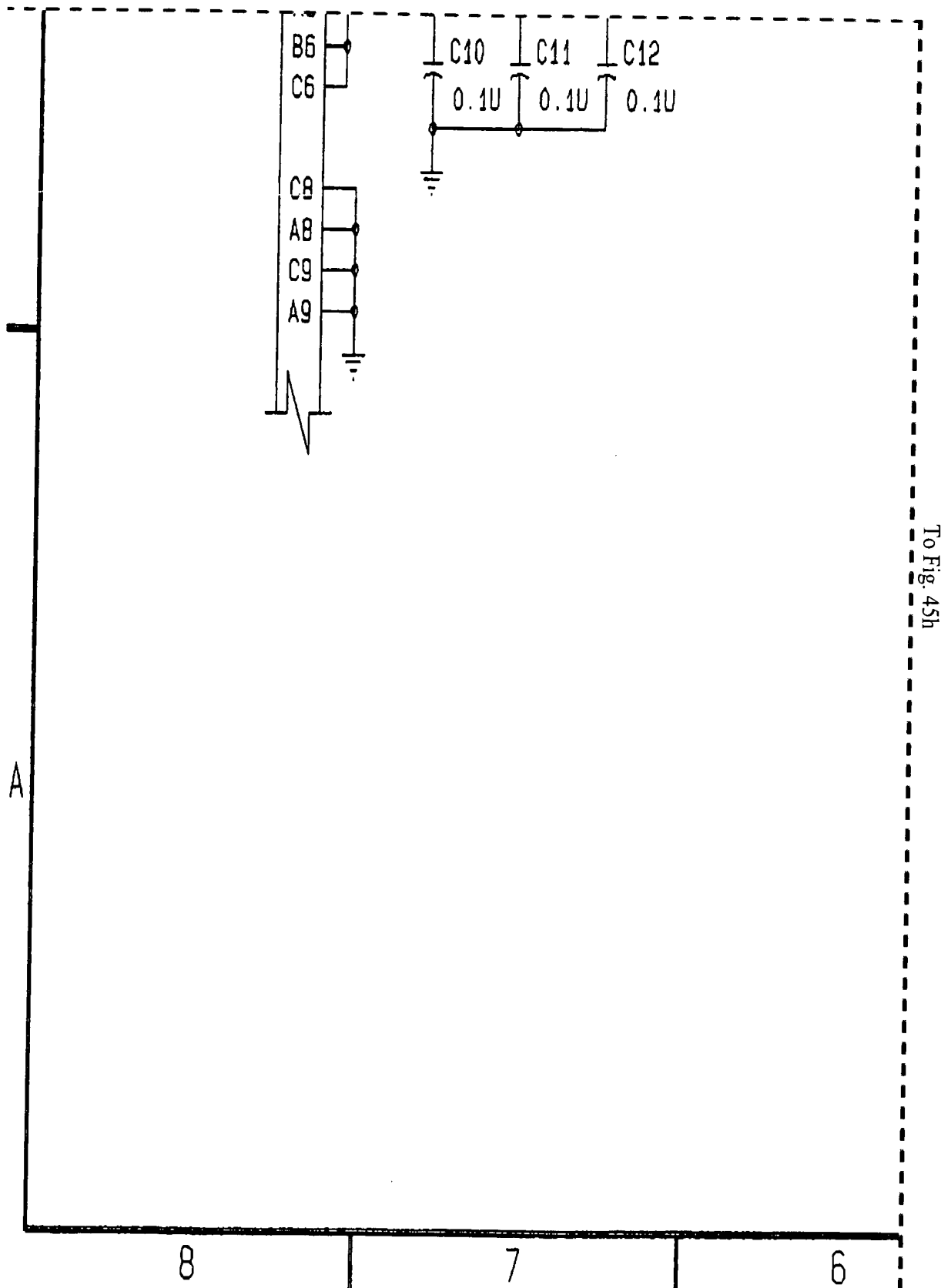
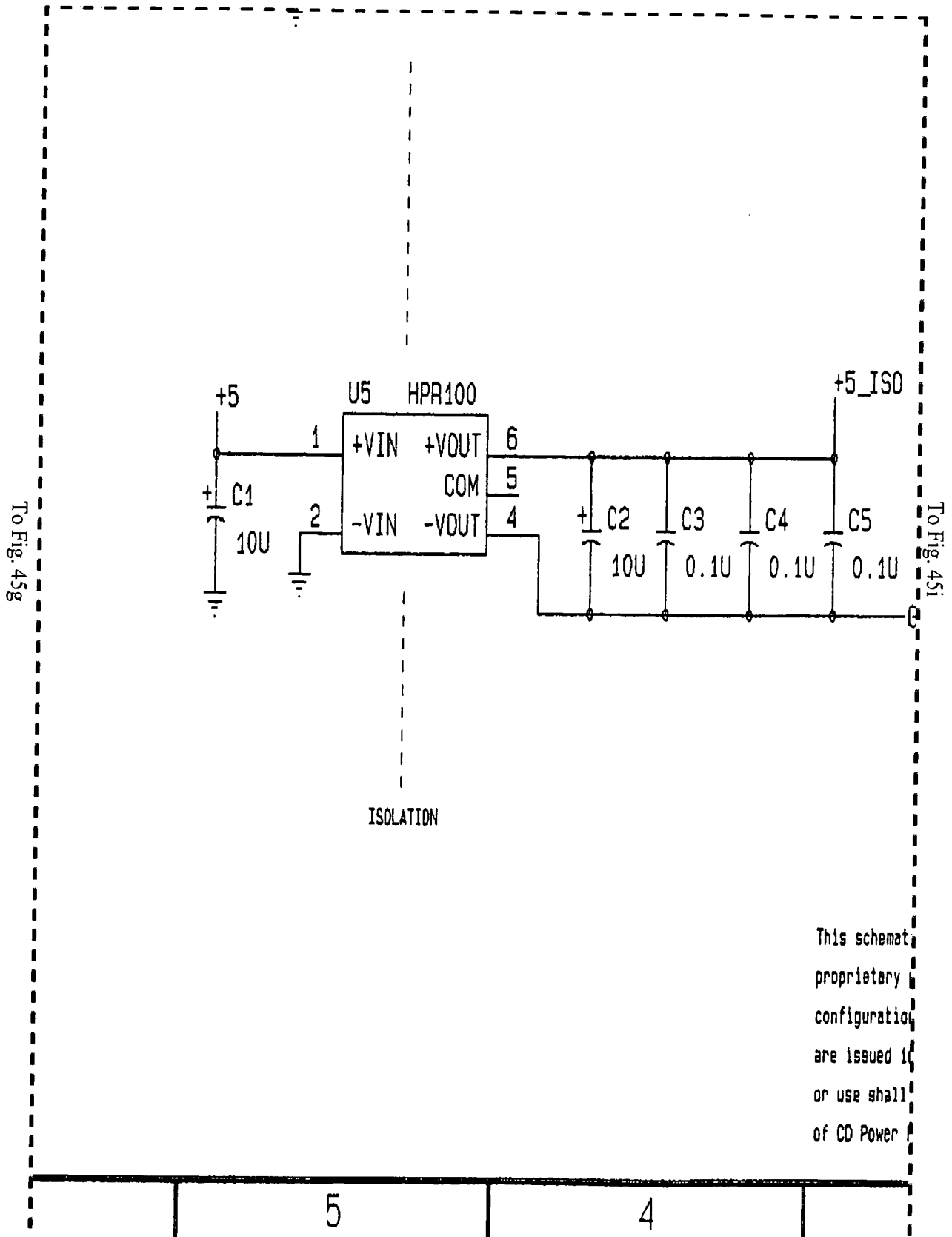


FIG. 45g

To Fig. 45e



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FIG. 45h

To Fig. 45f

To Fig. 45h

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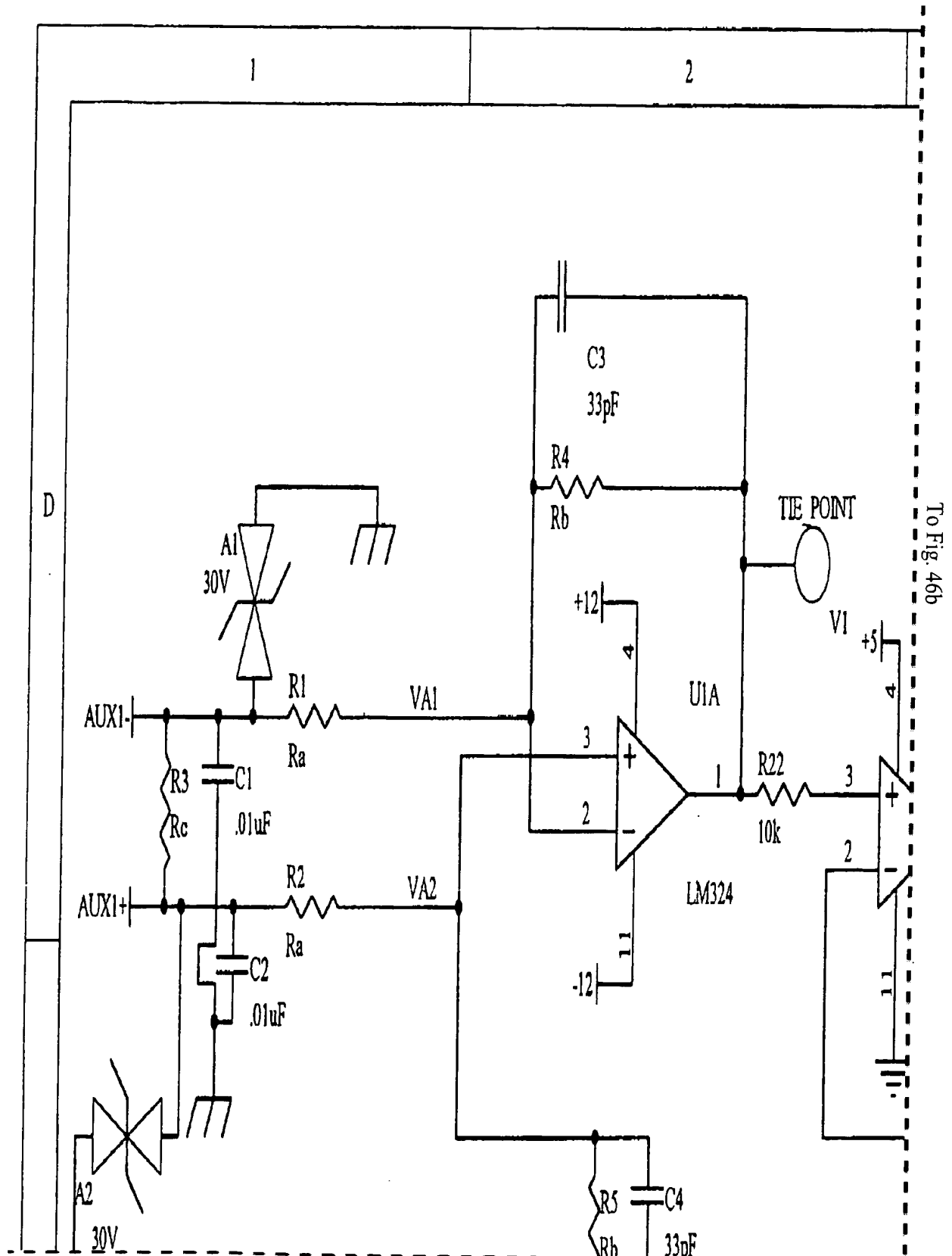
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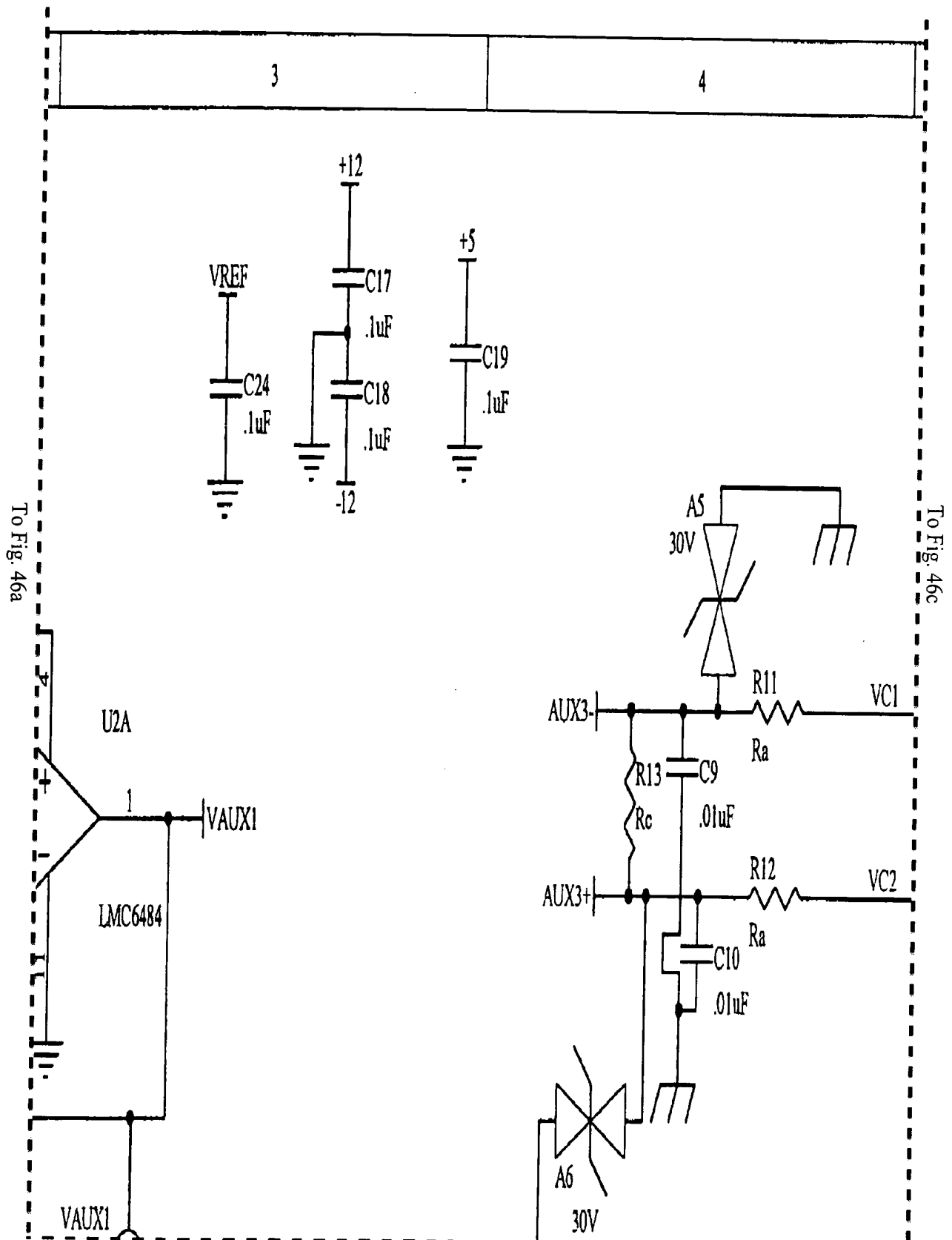
1

FIG. 45i



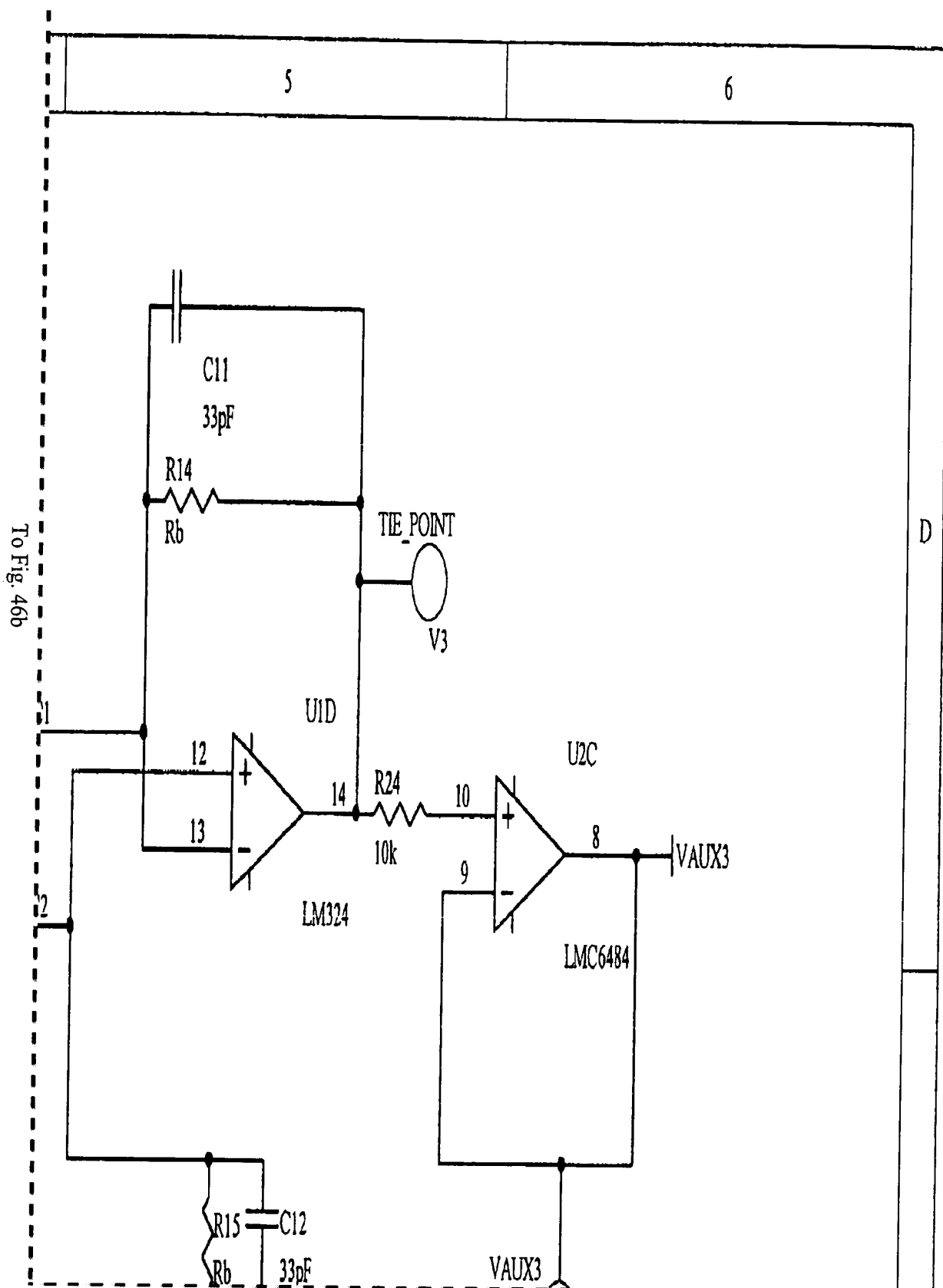
To Fig. 46d

FIG. 46a



To Fig. 46e

FIG. 46b



To Fig. 46b

To Fig. 46f

FIG. 46c

To Fig. 46a

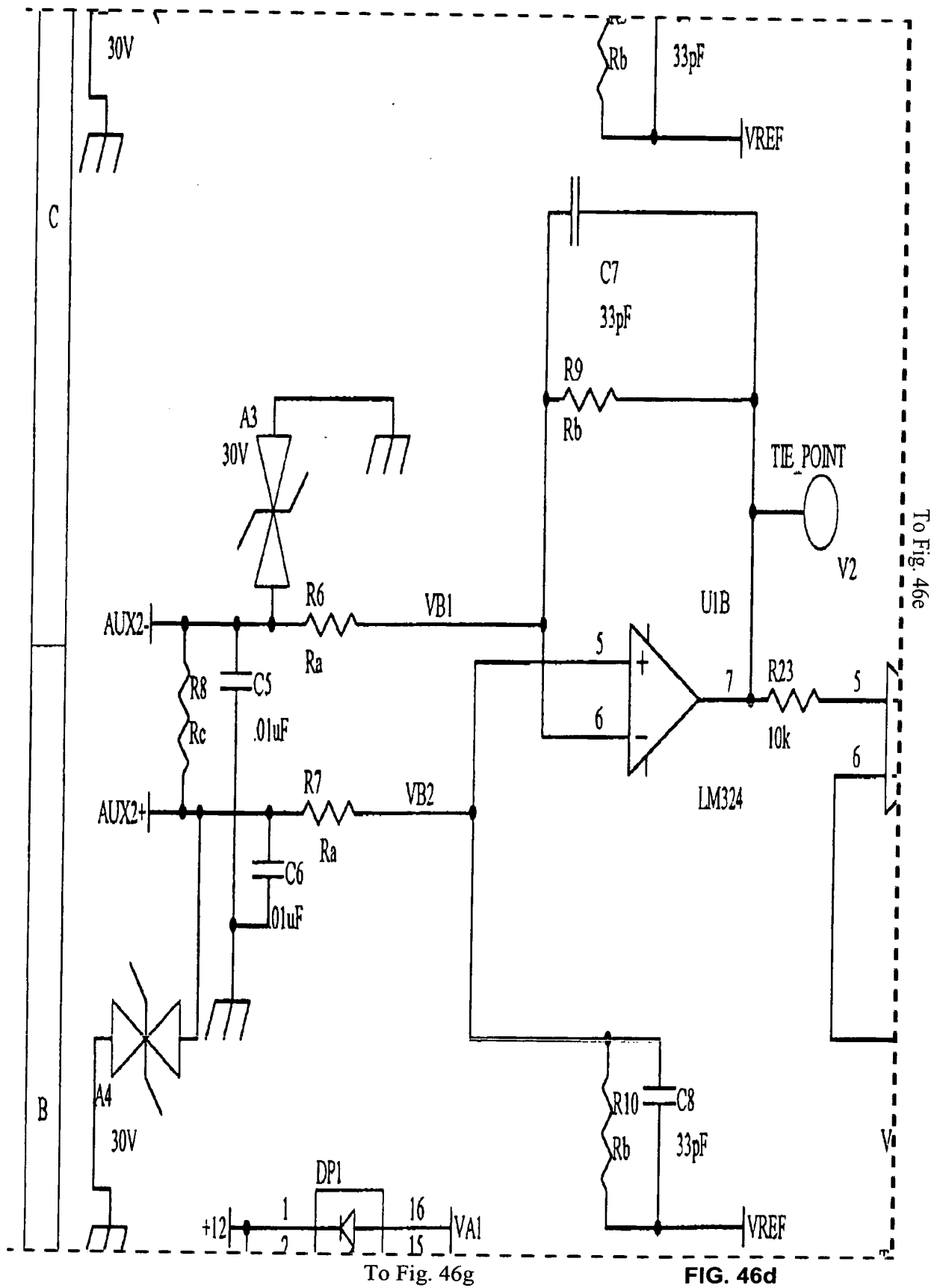


FIG. 46d

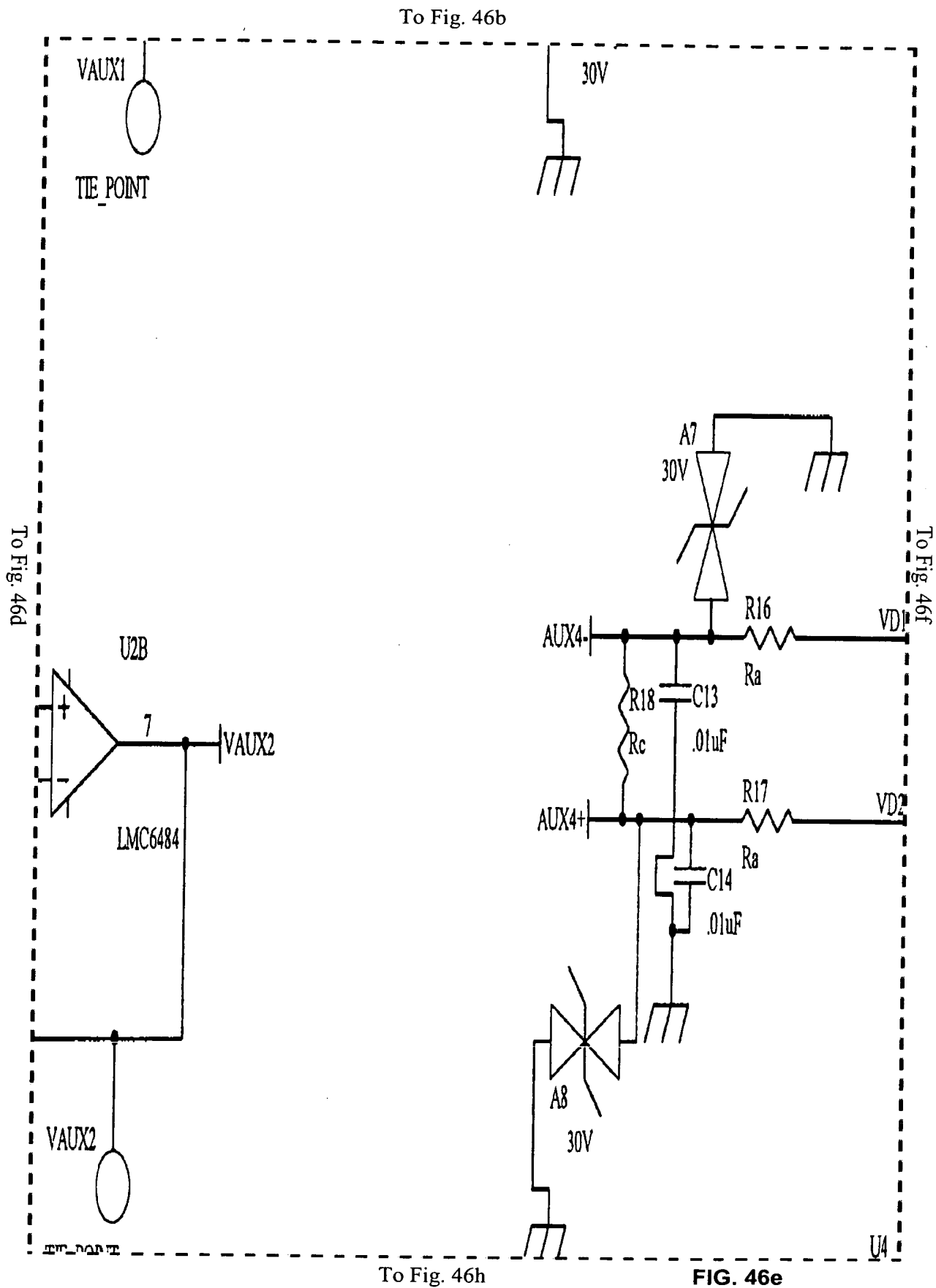
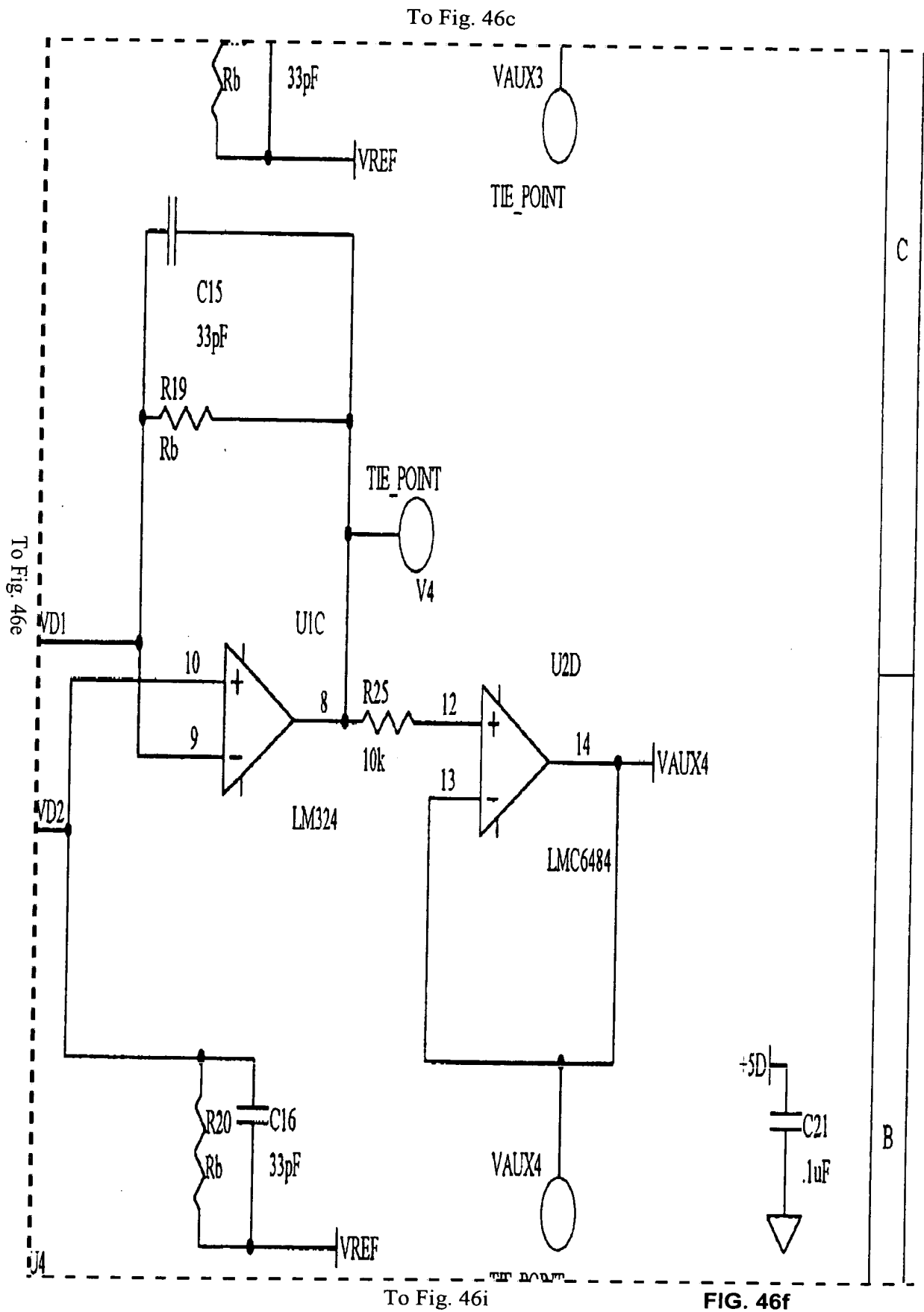


FIG. 46e



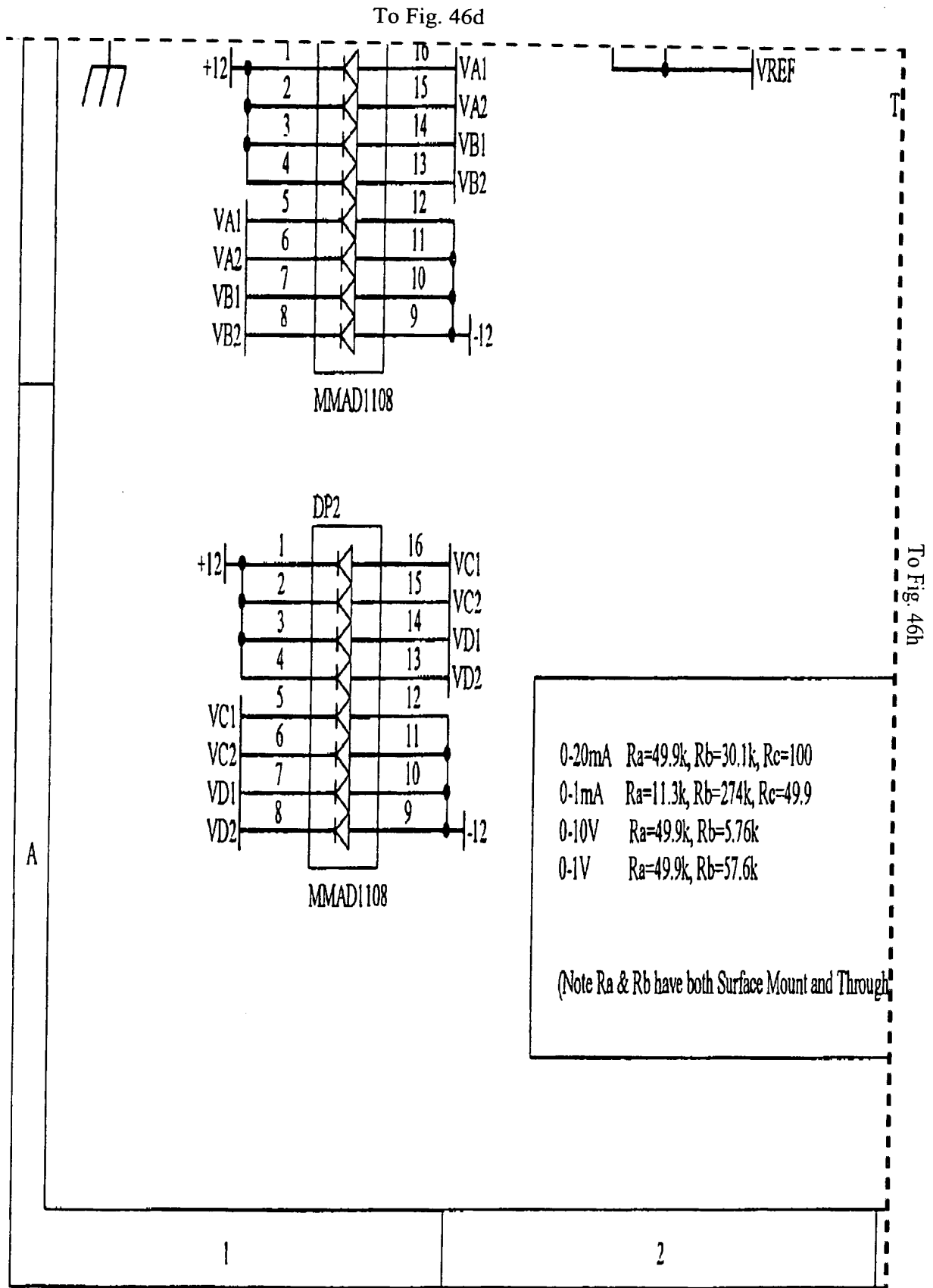


FIG. 46g

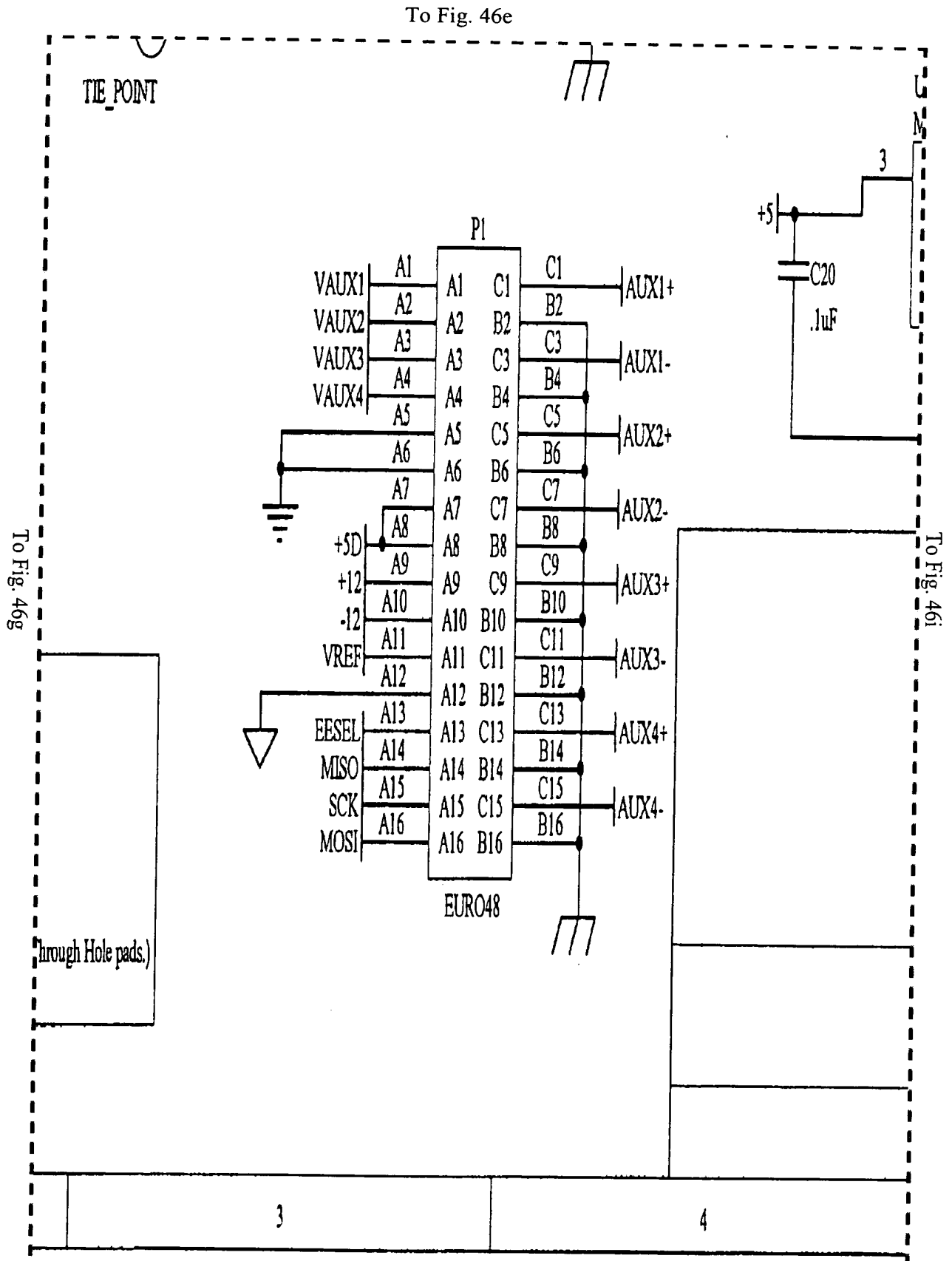
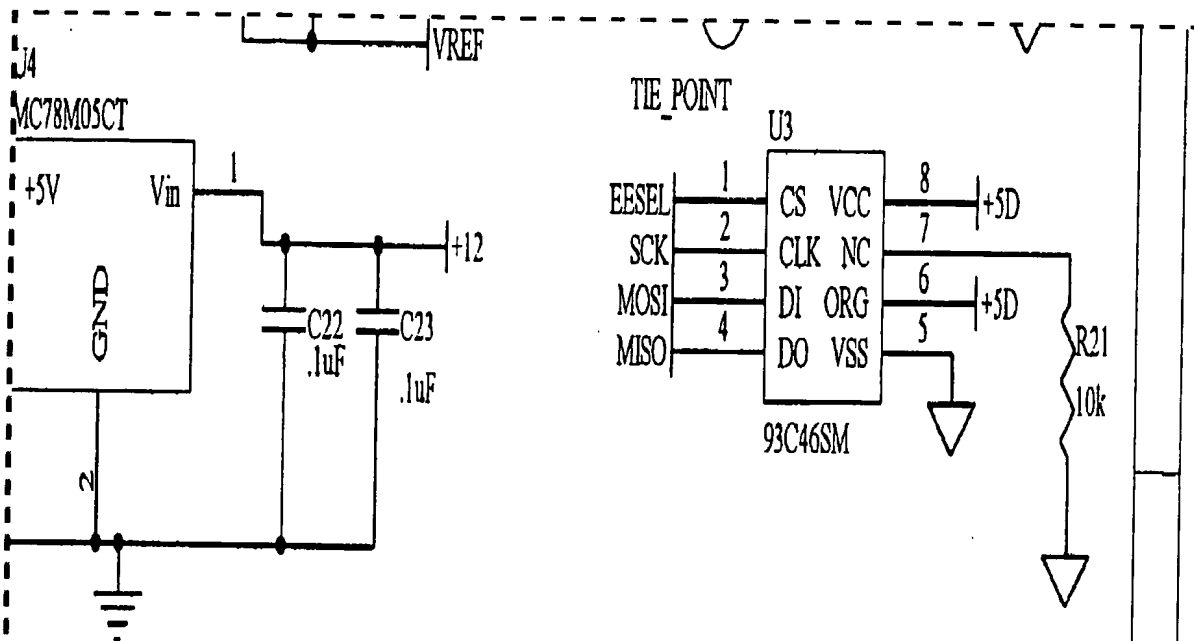


FIG. 46h

To Fig. 46f



To Fig. 46h

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FIG. 46i

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